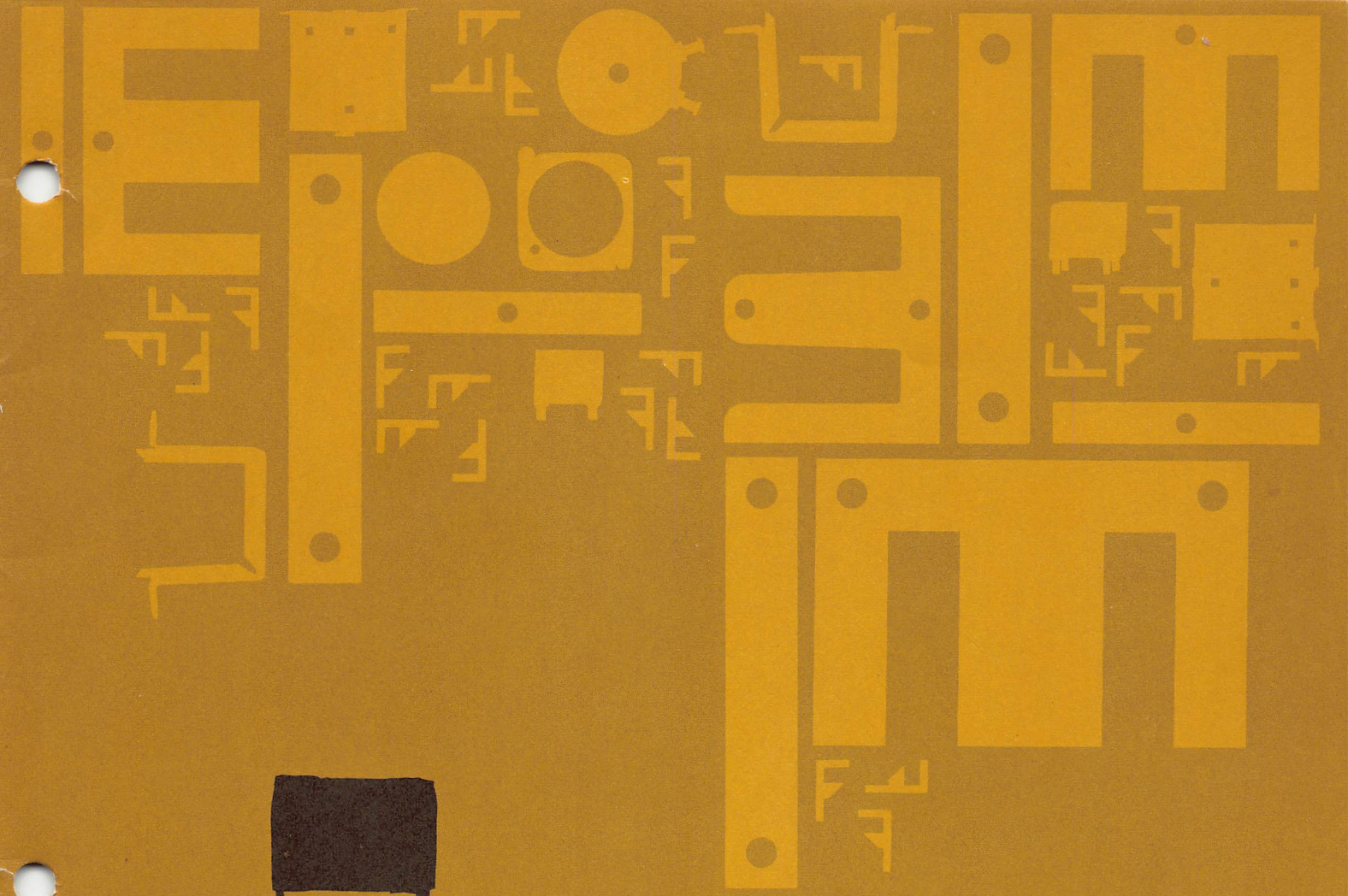


TRIAD TRANSFORMERS 1962 CATALOG/TR-62

SALES REPRESENTATIVES

ZONE 1

THE DAN GREENE
ORGANIZATION, INC.
1955 Massachusetts Avenue
P.O. Box 124
Cambridge 38, Massachusetts
UNiversity 4-2220
TWX Camb Mass 93

ZONE 3

PASTON-HUNTER COMPANY ✱
3307 Erie Boulevard
P.O. Box 123, Dewitt Station
Syracuse 14, New York
Gibson 6-2180
TWX SS 147

ZONE 4

BE-ESCO SALES CORPORATION ✱
46 South Broadway
Yonkers, New York
YOnkers 3-0150
TWX Yonk 1651

ZONE 8

ROBERT FINLAY
Lincoln Building
Ridgewood, New Jersey
OLiver 2-0088

ROBERT FINLAY, JR.
Baltimore-Washington Branch
P.O. Box 29
Lutherville, Maryland
VAlley 3-9086

ZONE 9

GENE S. ROOT & COMPANY
733 Valevista Avenue
Pittsburgh, 34, Pennsylvania
LOcust 1-4125

ZONE 12

MURPHY & COTA
2110 Peachtree Road, N.W.
Atlanta 9, Georgia
TRinity 6-3020
TWX At 404

MURPHY & COTA
2319 East South Street
Orlando, Florida
GArden 4-2167
TWX Or 7116

MURPHY & COTA
1106 Burke Street
Winston Salem, North Carolina
PArk 4-0750
TWX Sal 445

✦ Export only.

MURPHY & COTA
221 Latta Arcade
Charlotte 2, North Carolina
FRanklin 5-2317

MURPHY & COTA
Electric Systems Center, Room 216
Huntsville, Alabama
JEfferson 6-9121
TWX Htvl 8572

ZONE 14

ARTHUR H. BAIER COMPANY ✱
18236 South Miles Parkway
Cleveland 28, Ohio
GReenwood 5-3080
TWX Mtrs 749

ARTHUR H. BAIER COMPANY ✱
384 West First Street
Dayton 2, Ohio
BAldwin 8-5493

ZONE 16

BURTON F. HOMSHER ✱
4320 Dodge Avenue
Fort Wayne, Indiana
TRinity 3-1348

ZONE 17

HENSCHEN, JENSEN & COMPANY
Curtis Building
2842 West Grand Boulevard
Detroit 2, Michigan
TRinity 1-0308
TWX DE 1053

ZONE 18 & 24

ELLINGER SALES CORPORATION
6540 Northwest Highway
Chicago 31, Illinois
ROdney 3-1570
TWX Cg 2326

ELLINGER SALES CORPORATION
309 Fourth Avenue, S.E.
Clarion, Iowa

ELLINGER SALES CORPORATION
6427 Evergreen Street
Berkeley 21, Missouri

ZONE 22

BRANUM SALES, Inc.
2334 Havenhurst
P.O. Box 14348
Dallas 34, Texas
CHapel 7-7128
TWX DI 632

ZONE 25

CLARK R. GIBB
2400 Hennepin Avenue
Minneapolis 5, Minnesota
FRanklin 7-1200
TWX Mp 891

ZONE 26

McLOUD & RAYMOND COMPANY
2151 South Grape Street
P.O. Box 22044
Denver 22, Colorado
SKyline 6-1589
TWX Dn 220

McLOUD & RAYMOND COMPANY
4407 Ebony
P.O. Box FG 146
Salt Lake City, Utah
AMhurst 6-5002

ZONE 28

JOHN COLBERT
4055 Redwood Avenue
Venice, California
EXmont 7-2145
UPton 0-5381

ZONE 29

LOGAN SALES COMPANY
150 Eighth Street
San Francisco, California
HEmlock 1-0692
FAX – FHZ

ZONE 30

DAVE MILLER SALES COMPANY
2323 North 45th Street
Seattle 3, Washington
MElrose 2-7070

ZONE 32

D. ELDON McLENNAN, Ltd.
1624 West Third Avenue
Vancouver, B.C., Canada
BAyview 9251

D. ELDON McLENNAN, Ltd.
2413 Cliff Street
Calgary, Alberta, Canada

ZONE 33

THE R. C. KAHNERT SALES CO., Ltd.
73 Crockford Boulevard
Scarborough, Ontario, Canada
PLymouth 7-5171

THE R. C. KAHNERT SALES CO., Ltd.
P.O. Box 885
Montreal, Quebec, Canada

ZONE 34

WESTREX COMPANY ✦
540 West 58th Street
New York 19, New York
JUdson 2-3030
TWX NY 1-2808

ZONE 44

FRANK KAHSAR ■
4903 Prosperity Place
Cincinnati 38, Ohio
GRandview 1-9011

ZONE 46

E. S. NEEDLER ■
5302 Fairfield Avenue
Station C, P.O. Box 2407
Fort Wayne 6, Indiana
HArrison 9726

ZONE 47

MILES WAGNER ■
215 East River Road
P.O. Box 20, Route 4
Tucson, Arizona
CYpress 7-0886

ZONE 93 & 94

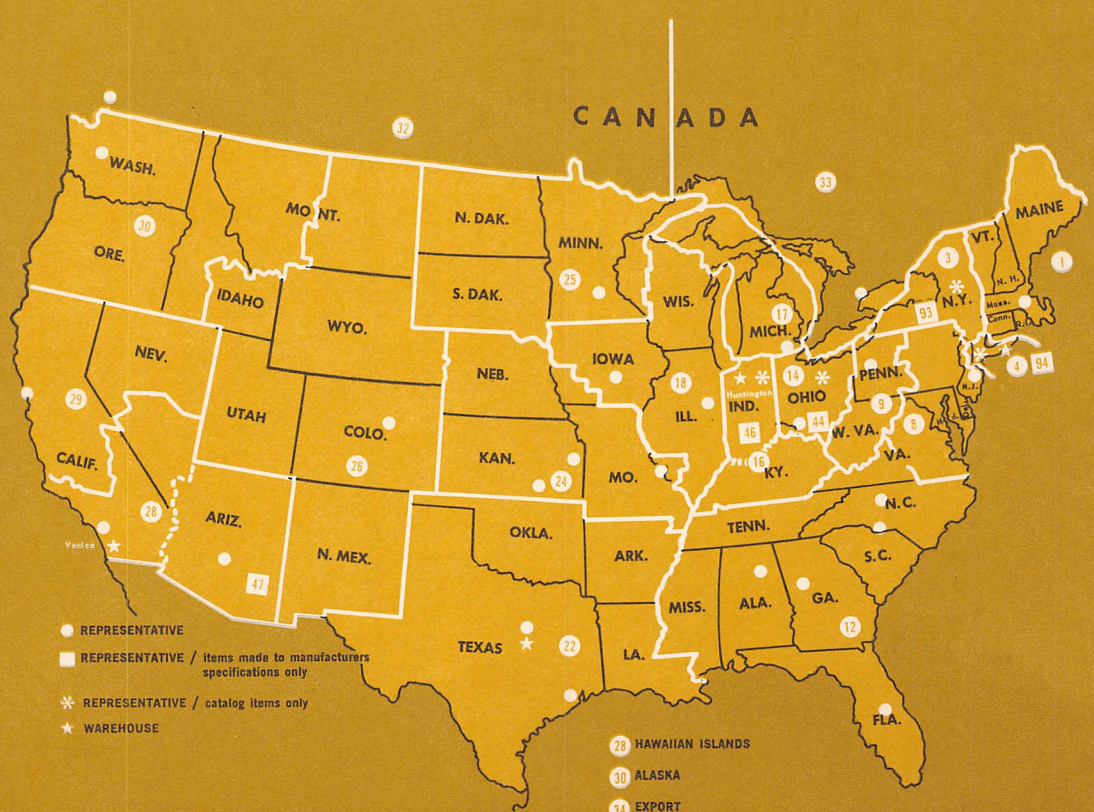
EASTERN REGIONAL SALES OFFICE ■
Mr. George Talakson
Litton Industries
456 Sylvan Avenue
Englewood Cliffs, New Jersey

★ WAREHOUSES

TRIAD TRANSFORMER CORPORATION
228 East Third Street
Mount Vernon, New York
MOunt Vernon 7-6607
TWX Mtv 1608

TRIAD TRANSFORMER CORPORATION
305 North Briant
Huntington, Indiana
HUntington 3733

TRIAD TRANSFORMER CORPORATION
2334 Havenhurst
Dallas 34, Texas
CHapel 7-7128



When you specify Triad you are assured of transformers which will give you the exceptional performance you seek. Engineered, developed and manufactured to the most rigid quality control standards, Triad Transformers employ the most advanced techniques of scientific research.

Every Triad Transformer is manufactured under the Signal Corps RIQAP Program, providing you with a product which is pre-inspected to meet military specifications.

Triad's sound pricing policy and stable marketing philosophy guarantee the finest transformer products available. Triad transformers are produced by skilled craftsmen . . . they are constructed of only the finest pre-inspected new materials available from manufacturers within the limits of the United States.

Leader in transformer research, Triad continues to incorporate the newest, most progressive methods of manufacture in every transformer. All Triad transformers will perform within specifications given when matched and loaded at impedances shown. All Triad transformers shown are available off the shelf at your finest stocking distributor.

ONLY TRIAD TRANSFORMERS ARE ALWAYS . . . Climatite vacuum impregnated, core and coil . . . encased in satin smooth baked gray enamel . . . package engineered for quick, easy identification . . . permanently marked (wherever possible) with legible circuit and connection specifications . . . of the smallest, lightest construction possible at any cost . . . shielded with copper foil in static shielded types . . . there is no substitute for a Triad Transformer.

For quality assurance . . . performance tested transformers . . . excellence in design and technology . . . ALWAYS SPECIFY TRIAD.

TRIAD TRANSFORMERS 1962

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For Triad's complete replacement line, see Catalog TV-62 or contact your stocking distributor.

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Prefix letters indicate transformer type as follows. Suffix letters indicate case type as shown on chart inside back cover.

A .....Audio
C .....Choke
E .....High Q Toroidal Coil
F .....Filament
G .....Geoformer Instrumentation
HC .....Box Shielded Isolation
HS .....Hermetically Sealed
HSM .....Hermetically Sealed
JAF .....Trijet/Hermetically Sealed
JO .....Trijet/Hermetically Sealed
JZ .....Trijet/Hermetically Sealed
M .....Modulation
N .....Isolation or Stepdown Autoformer
P .....Plate Power
PL .....Pulse
R .....Power/Combined Plate and Filament
S .....Speaker Coupling or Output
SP .....Transistor/Red Spec Microminiature
T .....Miniature
TZ .....Miniature
TY .....Transistor

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A-11J	12	11.67
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A-13J	12	12.84
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A-66J	12	9.75
A-67J	12	10.80
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A-83X	35	2.58
A-85X	35	3.06
A-89A	35	7.02
A-91A	35	9.42
A-200P	16	15.00
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A-210P	16	10.86
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C-3X	31	2.10
C-4X	31	1.77
C-5X	31	2.34
C-6X	31	2.04
C-7X	31	2.67
C-8X	31	2.34
C-9X	31	2.34
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C-12A	31	4.74
C-12X	31	3.39
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C-14X	31	3.93
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C-15X	31	3.93
C-16A	31	7.08
C-17X	31	3.09
C-18A	31	9.42
C-19A	31	10.65
C-20A	31	12.48
C-21X	31	2.67
C-22A	31	21.66
C-23X	31	2.67
C-24X	31	2.25
C-25A	31	6.66
C-26X	31	4.50
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C-35A	32	13.08
C-36X	31	2.04
C-38AL	32	21.84
C-39A	32	21.24
C-40X	31	2.67
C-42AL	31	12.90
C-43X	31	6.00
C-45AL	31	21.96
C-47U	31	8.25
C-48U	31	9.84
C-49U	31	11.67
C-80U	31	38.70
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EA-001A	17	5.43
EA-002	17	3.69
EA-002A	17	5.43
EA-003	17	3.69
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EA-004	17	3.60
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EA-005	17	3.60
EA-005A	17	5.34
EA-007	17	3.60
EA-007A	17	5.34
EA-010	17	3.60
EA-010A	17	5.34
EA-015	17	3.69
EA-015A	17	5.43
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EA-040	17	3.75
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EA-050	17	3.75
EA-050A	17	5.49
EA-070	17	3.84
EA-070A	17	5.58
EA-100	17	3.84
EA-100A	17	5.58
EA-150	17	3.84
EA-150A	17	5.58
EA-200	17	3.93
EA-200A	17	5.67
EA-250	17	3.99
EA-250A	17	5.73
EA-300	17	3.99
EA-300A	17	5.73
EA-400	17	4.08
EA-400A	17	5.82
EA-500	17	4.29
EA-500A	17	6.03
EA-600	17	4.38
EA-600A	17	6.12
EA-700	17	4.50
EA-700A	17	6.24
EA-1000	17	4.65
EA-1000A	17	6.39
EC-001	17	3.99
EC-001A	17	5.79
EC-002	17	3.99
EC-002A	17	5.79
EC-003	17	3.99
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EC-010	17	4.14
EC-010A	17	5.94
EC-015	17	4.14
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EC-020	17	4.20
EC-020A	17	6.00
EC-030	17	4.20
EC-030A	17	6.00
EC-040	17	4.29
EC-040A	17	6.09
EC-050	17	4.29
EC-050A	17	6.09
EC-070	17	4.38
EC-070A	17	6.18
EC-100	17	4.38
EC-100A	17	6.18
EC-200	17	4.44
EC-200A	17	6.24
EC-250	17	4.44
EC-250A	17	6.24
EC-300	17	4.50
EC-300A	17	6.30
EC-400	17	4.50
EC-400A	17	6.30
EC-500	17	4.59
EC-500A	17	6.39
EC-600	17	4.59
EC-600A	17	6.39
EC-700	17	4.65
EC-700A	17	6.45
EC-1000	17	4.74
EC-1000A	17	6.54
EC-1500	17	4.89
EC-1500A	17	6.69
EC-2000	17	4.95
EC-2000A	17	6.75
EC-3000	17	5.04
EC-3000A	17	6.84
EC-4000	17	5.10
EC-4000A	17	6.90
EC-5000	17	5.28
EC-5000A	17	7.08
EC-7000	17	5.79
EC-7000A	17	7.59
EC-10000	17	6.42
EC-10000A	17	8.22
EK-010	17	5.85
EK-010A	17	7.71
EK-020	17	5.94
EK-020A	17	7.80
EK-030	17	6.00
EK-030A	17	7.86
EK-040	17	6.00
EK-040A	17	7.86
EK-050	17	6.12
EK-050A	17	7.98
EK-060	17	6.18
EK-060A	17	8.04
EK-080	17	6.27
EK-080A	17	8.13
EK-100	17	6.36
EK-100A	17	8.22
EK-120	17	6.36
EK-120A	17	8.22
EK-150	17	6.36
EK-150A	17	8.22
EK-200	17	6.42
EK-200A	17	8.28
EK-250	17	6.51
EK-250A	17	8.37
EK-300	17	6.57
EK-300A	17	8.43
EK-400	17	6.75
EK-400A	17	8.61
EK-500	17	6.90
EK-500A	17	8.76
EK-700	17	7.05
EK-700A	17	8.91
EK-1000	17	7.20
EK-1000A	17	9.06
EK-2000	17	7.44
EK-2000A	17	9.30
EK-3000	17	7.62
EK-3000A	17	9.48
EK-4000	17	7.86
EK-4000A	17	9.72
EK-5000	17	7.92
EK-5000A	17	9.78
EK-7000	17	8.31
EK-7000A	17	10.17
EK-10000	17	8.70
EK-10000A	17	10.56
EK-20000	17	9.00
EK-20000A	17	10.86
EK-30000	17	9.66
EK-30000A	17	11.52
EK-40000	17	10.35
EK-40000A	17	12.21
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EM-040A	17	5.94
EM-050	17	4.29
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EM-100A	17	6.09
EM-150	17	4.44
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EM-200	17	4.50
EM-200A	17	6.15
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EM-250A	17	6.15
EM-300	17	4.65
EM-300A	17	6.30
EM-400	17	4.74
EM-400A	17	6.39
EM-500	17	4.89
EM-500A	17	6.54
EM-700	17	5.19
EM-700A	17	6.84
EM-1000	17	5.79
EM-1000A	17	7.44
ET-001	17	3.84
ET-001A	17	5.58
ET-002	17	3.84
ET-002A	17	5.58
ET-003	17	3.84
ET-003A	17	5.58
ET-004	17	3.84
ET-004A	17	5.58
ET-005	17	3.90
ET-005A	17	5.64
ET-007	17	3.99
ET-007A	17	5.73
ET-010	17	3.99
ET-010A	17	5.73
ET-015	17	3.99
ET-015A	17	5.73
ET-020	17	4.20
ET-020A	17	5.94
ET-025	17	4.20
ET-025A	17	5.94
ET-030	17	4.29
ET-030A	17	6.03
ET-040	17	4.29
ET-040A	17	6.03
ET-050	17	4.29
ET-050A	17	6.03
ET-060	17	4.38
ET-060A	17	6.12
ET-070	17	4.38
ET-070A	17	6.12
ET-100	17	4.38
ET-100A	17	6.12
ET-150	17	4.44
ET-150A	17	6.18
ET-200	17	4.44
ET-200A	17	6.18
ET-250	17	4.50
ET-250A	17	6.24
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ET-300A	17	6.24
ET-400	17	4.50
ET-400A	17	6.24
ET-500	17	4.59
ET-500A	17	6.33
ET-700	17	4.65
ET-700A	17	6.39
ET-1000	17	4.74
ET-1000A	17	6.48
F-1X	33	2.61
F-3X	33	4.02
F-5U	33	5.67
F-6X	33	3.42
F-7X	33	3.57
F-8X	33	4.17
F-9A	33	8.22
F-9U	33	7.32
F-10U	33	9.33
F-11U	33	9.39
F-12X	33	4.80
F-13X	33	2.10
F-14X	33	2.22
F-15U	33	7.41
F-16X	33	3.33
F-17U	33	11.60
F-18A	33	6.15
F-18X	33	4.80
F-19X	33	5.25
F-20U	33	7.05
F-21A	33	7.38
F-22A	33	10.56
F-23U	33	7.17
F-24U	33	7.32
F-25X	33	3.57
F-26X	33	4.17
F-27U	32	9.66
F-28U	33	14.88
F-29U	33	9.99
F-30A	32	9.00
F-32A	32	7.05
F-34A	32	9.00
F-36A	32	10.41
F-38A	32	10.98
F-40X	33	3.39
F-41X	33	5.16
F-42A	32	7.95
F-43X	33	3.84
F-44X	33	3.66
F-45X	33	3.39
F-47U	28	6.30
F-48U	28	9.15
F-49U	28	14.10
F-50X	33	3.33
F-51X	33	3.57
F-52X	33	3.09
F-53X	33	4.50
F-60U	28	7.59
F-61U	28	10.20
F-62U	28	19.50
F-63U	28	6.27
F-64U	28	7.50
F-65U	28	11.19
F-66U	28	27.60
F-67U	28	15.96
F-68U	28	10.56
F-71U	33	6.51
F-72Z	33	4.20
F-79U	28	24.00
F-80U	28	45.00
F-83A	32	11.70
F-84AC	28	19.32
F-90X	28	4.05
F-91X	28	5.22
F-92A	28	8.55
F-93X	28	5.73
F-94X	28	3.48
F-102X	30	6.90
F-104U	30	9.15
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G-2H3	20	23.65
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G-4H3	20	23.65
G-5	20	21.20
G-5TS	20	28.90
G-7	20	21.20
G-8	20	28.07
G-9	20	21.20
G-10	20	28.07
G-12	20	20.00
G-14	20	19.60
G-14TS	20	24.53
G-17	20	21.76
G-18	20	20.00
G-18TS	20	24.40
G-19	20	20.00
G-19TS	20	24.53
G-20	20	28.90
G-20H	20	23.65
G-21	20	23.65
G-21TS	20	28.90
G-22	20	31.22
G-22H	20	25.85
G-23	20	23.65
G-23TS	20	28.90
G-24	20	37.83
G-25	20	23.65
G-25TS	20	28.90
G-30	20	17.98
G-30TS	20	24.40
G-31	21	19.60
G-32	21	24.53
G-33	21	21.20
G-34	21	27.89
G-36	21	16.81
G-36TS	21	25.85
G-40	21	21.20
G-40TS	21	26.89
G-48	21	16.39
G-48TS	21	25.85
G-51	21	19.60
G-51A	21	19.60
G-52	21	20.80
G-53	21	20.80
G-53A	21	20.80
G-54	21	20.80
G-57	21	16.81
		25.85
G-64	21	16.39
G-65	21	16.39
G-72	22	21.20
G-80	22	24.58
G-84	22	21.20
G-85	22	21.20
G-92	22	22.06
G-101	20	19.60
G-101TS	20	23.65
G-135	21	19.60
G-150	21	19.60
G-155	21	19.60
G-183	22	24.92
G-201	20	19.60
G-202	20	20.00
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G-250	21	19.60
G-255	21	19.60
G-266	22	20.50
G-274	22	20.41
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G-276	22	20.50
G-283	22	24.92
G-284	22	20.00
G-285	22	20.00
G-301	20	19.30
G-306	20	19.30
G-313	20	19.30
G-315	20	19.30
G-335	21	18.91
G-336	21	18.91
G-350	21	18.91
G-355	21	18.91
G-388	22	19.30
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G-391	22	18.91
G-394	22	18.91
G-401	20	19.60
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G-455	21	19.60
G-475	22	20.32
G-493	22	17.65
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HC-115	8	29.25
HC-300	8	38.10
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HS-3	4	31.10
HS-4	4	28.40
HS-5	4	27.55
HS-8	4	28.58
HS-11	4	21.68
HS-14	4	22.52
HS-15	4	26.65
HS-23	4	21.73
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HS-27	4	19.70
HS-29	4	27.50
HSM-31	4	21.08
HS-32	4	27.50
HS-35	4	19.51
HS-50	4	23.23
HS-52	4	24.02
HS-54	4	28.58
HS-56	4	25.82
HS-58	4	30.32
HS-60	4	19.51
HS-61	4	20.65
HS-66	4	23.18

Type No.	Page No.	Net Price
HS-71	5	14.41
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HS-77	5	21.20
HSM-79	5	19.51
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HSM-81	5	23.60
HSM-82	5	23.60
HSM-84	5	23.60
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HSM-91	5	39.33
HSM-94	5	43.65
HSM-95	5	43.65
HS-97	5	82.26
HSM-181	5	23.60
HSM-182	5	23.60
HSM-184	5	30.02
HSM-186	5	30.02
HSM-187	5	30.02
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HSM-224	6	18.32
HSM-225	6	14.28
HSM-226	6	16.32
HSM-227	6	19.44
HSM-228	6	23.19
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HSM-230	6	15.72
HSM-231	6	20.64
HSM-232	6	22.41
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HSM-305	8	12.24
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HS-413	7	27.30
HS-415	7	34.20
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HS-433	7	17.76
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M-6X	35	5.58
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M-8AL	35	17.10
M-12AL	35	20.34
M-15A	35	11.67
M-16AL	35	13.68
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P-15AL	24	22.98
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P-18AL	24	52.20
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PR-21AL	24	50.67
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PL-80H	23	12.48
PL-80P	23	11.85
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PL-81H	23	12.60
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PL-82P	23	12.36
PL-83E	23	12.51
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PL-124E	23	11.70
PL-124H	23	13.14
PL-139E	23	10.08
PL-139H	23	11.13
PL-139M	23	12.09
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PL-146M	23	14.22
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R-21A	25	14.31
R-21B	25	14.04
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R-22B	25	7.44
R-23B	26	6.51
R-24A	25	16.35
R-24B	25	16.23
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R-29A	26	5.85
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R-38BC	27	19.26
R-39A	27	17.34
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R-42BC	27	16.26
R-43C	30	10.32
R-45C	30	14.34
R-46A	24	26.67
R-50A	27	22.98
R-50BC	27	23.58
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R-70A	24	12.30
R-71A	25	17.01
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R-73B	26	8.67
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R-77BC	27	32.90
R-78BC	27	28.90
R-79BA	27	13.50
R-81BC	27	33.75
R-81BS	27	35.70
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R-94H	25-28	29.75
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R-105A	26	5.94
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R-106A	26	6.06
R-106B	26	5.97
R-107A	26	6.69
R-107B	26	6.57
R-108A	26	6.75
R-108B	26	6.63
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R-109B	26	7.17
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R-112B	26	8.07
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S-8Z	36	1.59
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S-38Z	36	1.74
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S-40X	36	2.52
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TY-23X	13	3.90
TY-24X	13	4.53
TY-25X	13	4.62
TY-26X	13	4.65
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TY-28XT	10-13	3.87
TY-29X	16	4.26
TY-30X	16	3.33
TY-31X	16	3.33
TY-32X	13	3.90
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TY-34X	13	3.90
TY-35X	13	3.75
TY-36X	13	3.90
TY-37X	13	3.99
TY-38X	13	3.99
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TY-52X	13	4.47
TY-53X	16	3.42
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TY-61X	16	3.06
TY-62X	13	3.63
TY-63X	16	4.17
TY-64X	16	3.81
TY-65Z	16-35	3.81
TY-66A	16-35	9.42
TY-67A	16	9.75
TY-68S	18	6.48
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TY-74S	18	10.92
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TY-93	18	15.24
TY-94	18	15.96
TY-99	18	12.45
TY-100	18	12.60
TY-101	18	14.40
TY-102	18	14.70
TY-462	18	9.51
TY-468	18	9.51
TZ-1	10	3.68
TZ-2XT	10	3.93
TZ-5	10	3.68
TZ-7	10	3.26
TZ-13	10	3.83
TZ-15	10	3.83
TZ-17XT	10	3.99
TZ-24XT	10	3.99
TZ-25	10	3.11
TZ-26	10	3.11
TZ-28	10	3.11
TZ-29XT	10	4.02
TZ-32XT	10	3.90
TZ-103XT	10	3.00
VR-30Z	23	4.71

NEW ITEM

Prices subject to change without notice. Net prices shown for 1-9 quantity. For 1 to 249 pieces, see your stocking Triad Distributor for quantity discount schedule. For 250 or more pieces, contact your Triad Representative or call the factory.

AUDIO HERMETICALLY SEALED

Perfected for application in military prototypes, all are standard MIL–T–27A case sizes. Triad HSM Series outputs have . . . grain oriented core materials . . . open circuit to leakage inductance ratio of 10,000 to 1 . . . frequency response range exceeding 13 octaves . . . full rated power output within 3 db over the rated frequency range.

HIGH FIDELITY OUTPUT / high level / to line or voice coil

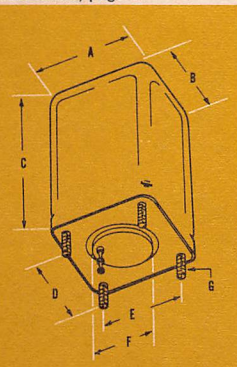
Type No.	Mil Type Number	Output Watts	Application	Matching Impedance Primary	Matching Impedance Secondary	Primary Ma. D.C. P.P. Total	Primary Ma. D.C. Single Total	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	Freq. Resp. ±3DB	RMS Test Voltage	F Dim. Inch Min. Clear.	Mil Case Type	Max. Unit Wt. Lbs.
HSM-79	TF4RX13FA	5	Sgl or P.P. Plates to Voice Coil	20,000 CT/ 5000 §§§	16/8/4	40	20	1580	1	35.4:1	40–20,000	Pri. 2000 Sec. 1500	1½	FA	2
HSM-80	TF4RX13FA	5	Sgl or P.P. Plates to Line	20,000 CT/ 5000 §§§	600 CT/250 CT/ 150/62.5	40	20	1670	35	5.75:1	40–20,000	Pri. 2000 Sec. 1500	1½	FA	2
HSM-81	TF4RX13JB	15	P.p. 6V6's, etc. to V.C.	8000 CT §§§	16/8/4	100		400	.84	22.3:1	15–30,000	1500	1½	JB	5.12
HSM-82	TF4RX13JB	15	As above—to line.	8000 CT §§§	600/250/125	100		405	26	3.6:1	15–30,000	1500	1½	JB	5.12
HSM-181	TF4RX13JB	15	P.p. 6V6's, 2A3's EL84's, etc. to V.C.	8000 CT■ or 2000CT §§§	16/8/4	100		430	1.03	22.3:1	15–30,000	1500	1½	JB	5
HSM-182	TF4RX13JB	15	As above—to line.	8000 CT■ or 2000CT §§§	600/250/125	100		405	26	3.6:1	15–30,000	1500	1½	JB	5
HSM-84	TF4RX13JB	20	P.p. 2A3's, 6B4's, 6L6's, etc. to V.C.	5000 CT §§§	16/8/4	160		242	.83	17.15:1	15–30,000	1500	1½	JB	5
HSM-85-R▲	TF4RX13JB	20	As above—to line.	5000 CT §§§	500/250/125	160		284	26	3.17:1	15–30,000	1500	1½	JB	5
HSM-184	TF1RX13KB	25	P.p. 7189A	8000 CT■	16/8/4§§§	200		245	.63	22.2:1	10–50,000	1500	1½	KB	7.5
HSM-189	TF1RX13KB	25	P.p. KT-66's, 807's, etc.— for Williamson circuit.	10,000 CT■ or 2500 CT §§§	16/8/4	200		280	.9	24.8:1	15–30,000	Pri. 2000 Sec. 1500	1½	KB	7.12
HSM-190	TF1RX13KB	25	As above—to line.	10,000 CT■ or 2500 CT §§§	500/250/125	200		268	13.4	4.45:1	15–30,000	Pri. 2000 Sec. 1500	1½	KB	7.5
HSM-186	TF1RX13KB	25	5881, 6L6, 807, etc. for Williamson circuit	6600 CT■ or 1650 CT §§§	16/8/4	160		245	.84	20:1	10–50,000	Pri. 2000 Sec. 1500	1½	KB	7
HSM-187	TF1RX13KB	25	As above—to line.	6600 CT■ or 1650 CT §§§	500/250/125	160		252	13.4	3.7:1	10–50,000	Pri. 2000 Sec. 1500	1½	KB	7.5
HSM-91▲	TF1RX13LA	50	P.p. parallel 2A3's, 6L6's, etc. to V.C.	2500 CT or 625 §§§	16/8/4	320		110	.5	12.62:1	15–30,000	2000	1½	LA	10
HSM-94	TF1RX13LA	55	P.p. par. 6L6's to V.C.	4500 CT §§§	16/8/4	360		138	.46	17.5:1	15–30,000	2000	1½	LA	11.1
HSM-95▲	TF1RX13LA	55	As above—to line.	4500 CT §§§	500/250/125	360		138	12	3:1	15–30,000	2000	1½	LA	11.3
HSM-192	TF1RX13LA	65	6550's to V.C.	4000 CT or■ 1000/445 CT §§§	16/8/4	400		138	.46	15.9:1	15–30,000	2000	1½	LA	11.2
HSM-193	TF1RX13LA	65	6550's to line	4000 CT or■ 1000/445 CT §§§	500/250/125	400		138	12	2.83:1	15–30,000	2000	1½	LA	11.25
HS-97▲	TF1RX13YY	125	P.p. 845's to line.	6600 CT or 1650 §§§	500/250/125	480		154	7.9	3.6:1	15–30,000	Pri. 5000 Sec. 1500	Special See page 6	GP-15	26.25

POWER OUTPUT / to line or voice coil

Type No.	Mil. Type Number	Power Output	Application	Matching Impedance Primary	Matching Impedance Secondary	DC Resistance Primary	DC Resistance Secondary	Overall Turns Ratio	Freq. Resp. ± 3 DB	RMS Test Voltage	F. Dim. Inches Min.	Case	Max. Unit Wt. Lbs.
HS-71	TF1QX13YY	2W	Plate to Line	10,000 10 MA D.C.	600 CT/ 150§§§	800	46	4.1:1	150–15,000	1000	1⅝	AH–2 ■■	.4
HS-73	TF1RX13YY	5W	Plate to Line or Voice Coil	5000 40 MA D.C.	500/250/ 16/8/4	330	40	3.15:1	70–15,000	1500	1	AJ–2 ■■	.75
HS-75	TF4RX13EB	10W	Single or P.P. Plates to Line or V.C.	10,000 CT 50 MA D.C.	500/250/ 16/8/4	325	13.8	4.48:1	100–25,000	1500	1	EB	1.12
HS-77	TF4RX13GA	25W	Single or P.P. Plates to Line or V.C.	9000 CT 120 MA D.C.	500/250/ 16/8/4	157	9.1	4.24:1	70–20,000	2000	1⅞	GA	3.12

▲ Discontinued item available until stock depleted. §§§ Split winding. CT For Center Tap. ■ Williamson type circuit may be used. Taps on primary for proper screen operation.

■■ See case chart, page 9.



HS & HSM Case

LOW LEVEL AUDIO INPUT

Type No.	Mil. Type Number	Power Output	Application	Matching Impedance		D.C. Resistance		Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Magnetic Shielding	F. Dim. Inch Min.	Case	Max. Unit Wt. Lbs.
				Primary	Secondary	Primary	Secondary							
HS-1‡	TF1QX10YY	10MW.	Universal–Line or Mike to Grid	600§/250§/ 150/62.5	77,000	70	3640	1:11.3	20–20,000	500	P-5	1	GP-4	.75
HS-11‡	TF1QX10YY	10MW.	Universal–Line or Mike to Grid	600§/250§/ 150/62.5	77,000	70	3640	1:11.3	20–20,000	500	P-1	15/16	GP-2	.5
HS-3‡	TF1QX10YY	10MW.	Universal–Line or Mike to Sgl. or P.P. Grids	600§/250§/ 150/62.5	117,600 CT	70	4160	1:14	20–20,000	500	P-5	1	GP-5	1
HS-4‡	TF1QX10YY	10MW.	Universal–Line or Mike to Sgl. or P.P. Grids	600§/250§/ 150/62.5	117,600 CT	70	4160	1:14	20–20,000	500	P-3	1	GP-4	.65
HS-14‡	TF1QX10YY	10MW.	Universal–Line or Mike to Sgl. or P.P. Grids	600§/250§/ 150/62.5	117,600 CT	70	4160	1:14	20–20,000	500	P-1	1	GP-3	.5
HS-15‡	TF1QX10YY	100MW.	Universal–Line or Mike to Sgl. or P.P. Grids	600§/250§/ 150/62.5 (10 MA. D.C.)	38,400 CT§	100	6150	1:8	30–20,000	500	P-3	1	GP-5	1.25
HS-5	TF1QX10YY	1MW.	Dynamic Mike to Grid	30	127,500	4.1	4860	1:65.2	40–12,000	500	P-5	1 1/8	GP-4	.7
HS-8‡	TF1QX10YY	100MW.	Universal–Line or Mike to Sgl. or P.P. Grids	600§/250§/ 150/62.5	117,600 CT§	50.5	8100	1:14	20–20,000	500	P-1	1	GP-4	.7

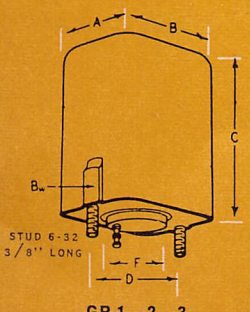
LOW LEVEL AUDIO INTERSTAGE

Type No.	Mil. Type Number	Power Output	Application	Matching Impedance		D.C. Resistance		Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Magnetic Shielding	F. Dim. Inch Min.	Case	Max. Unit Wt. Lbs.
				Primary	Secondary	Primary	Secondary							
HS-23	TF1QX10YY	40MW.	Sgl. Plate to Sgl. Grid	15,000	110,000	1610	4320	1:2.7	20–20,000	1500	P-3	1 1/8	GP-4	.65
HS-25	TF1QX10YY	75MW.	Sgl. Plate to Sgl. or P.P. Grid	15,000	111,000 CT§§	1115	6100	1:2.72	20–20,000	500	P-1	1	GP-4	.65
HS-35	TF1QX10YY	26MW.	Sgl. Plate to Sgl. or P.P. Grid	15,000	111,000 CT	1440	3940	1:2.72	20–20,000	500	P-1	15/16	GP-2	.35
HS-27	TF1QX15YY	130MW.	Sgl. or P.P. Plates to Sgl. or P.P. Grid	20,000 CT§/ 5000	60,000 CT§/ 15,000	1700	6420	1:1.72	20–20,000	1000	P-1	1	GP-4	.72
HS-29	TF1QX10YY	30MW.	Sgl. or P.P. Plates to Sgl. or P.P. Grids	20,000 CT§/ 5000	80,000 CT§/ 20,000	1750	3470	1:2	20–20,000	500	P-5	1	GP-4	.7
HSM-31	TF4RX19FA	3W.	Sgl. or P.P. Plates to Sgl. or P.P. Grids	20,000 CT§/ 5000	20,000 CT§/ 5000 CT	2060	750	1:1	20–20,000	1500	–	1 1/2	FA■■	2
HS-32	TF1QX15YY	200MW.	Sgl. Plate to Sgl. or P.P. Grids	15,000 (6 MA. D.C.)	60,000 CT§/ 15,000	3970	7930	1:2	20–15,000	1000	P-1	1 1/8	GP-5	1.13

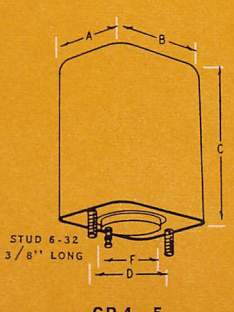
LOW LEVEL AUDIO OUTPUT / mixing, matching & bridging

Type No.	Mil. Type Number	Power Output	Application	Matching Impedance		D.C. Resistance		Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Magnetic Shielding	F. Dim. Inch Min.	Case	Max. Unit Wt. Lbs.
				Primary	Secondary	Primary	Secondary							
HS-50	TF1QX16YY	400MW.	Sgl. Plate to Line	15,000	600§/250§/ 150/62.5	1020	52.6	5:1	20–20,000	500	P-3	1	GP-4	.75
HS-60	TF1QX16YY	20MW.	Sgl. Plate to Line	15,000	600§/250§/ 150/62.5	770	39.8	5:1	20–20,000	500	P-1	15/16	GP-2	.4
HS-61	TF1QX13YY	200MW.	Sgl. Plate to Line	15,000 (5 MA. D.C.)	600§/250§/ 150/62.5	1840	80	5:1	40–15,000	1000	P-1	1	GP-5	1.25
HS-52	TF1QX13YY	400MW.	P.P. Plates to Line	20,000 CT§/ 5000	600§/250§/ 150/62.5	815	22.4	5.6:1	20–20,000	1000	P-1	1	GP-4	.85
HS-54	TF1QX13YY	30MW.	Bridging or P.P. Plates to Line	20,000 CT§/ 5000	600§/250§/ 150/62.5	1070	40	5.78:1	20–20,000	500	P-5	1	GP-4	.75
HS–56‡	TF1QX16YY	100MW.	Line to Line	600§/250§/ 150/62.5	600§/250§/ 150/62.5	60	60	1:1	10–30,000	500	P-3	1	GP-4	.75
HS–66‡	TF1QX16YY	100MW.	Line to Line	600§/250§/ 150/62.5	600§/250§/ 150/62.5	60	60	1:1	10–30,000	500	P-1	1	GP-3	.6
HS-58‡	TF1QX16YY	50MW.	Line to Line Balanced resistance and Capacitance	600§/250§/ 150/62.5	600§/250§/ 150/62.5	31.3	37.3	1:1	20–20,000	500	P-3H	1	GP-5	1.25

CT For Center Tap. § Balanced two windings. §§ Balanced parallel windings. ■■ See case chart, page 6. ‡ Static shield.



GP-1, -2, -3



GP-4, -5

SHIELDING

P-1 — One nickel alloy high permeability shield — 45db. reduction in pickup.

P-3 — Two nickel alloy shields interleaved with one heavy copper shading ring— 70db. reduction in pickup.

P-5 — Three nickel alloy shields interleaved with two heavy copper shading rings— 90db. reduction in pickup.

Also see Pages 19-22

	GP-1	GP-2	GP-3	GP-4	GP-5
A	7/8	1 1/16	1 1/4	1 7/16	1 5/8
B	1 1/16	1 1/4	1 1/2	1 3/4	2
Bw	1 1/16	1 11/32	1 3/16		
C	1 11/16	2 1/4	2 3/8	2 1/2	2 3/4
D	13/32	13/16	1 15/32	1 1/2	1 1/2
F	3/4	3/4	15/16	15/16	15/16
Wt.	3 oz.	5 1/2 oz.	8 oz.	12 oz.	17 oz.

POWER COMPONENTS
HERMETICALLY SEALED

Triad power components provide sophisticated, exceedingly superior features. Produced to exacting MIL-T-27A Specs. Marked for 50–60 cycle operation, they will perform up to 1200 cycles with no loss of efficiency.

COMBINED PLATE AND FILAMENT / primary 115 volt / 50-60 cycle

Type No.	Mil Type Number	Secondary Plate Supply			Filaments		RMS Test Voltage	F. Dim Inches (Min)	Mil Case Type	Max. Unit Wt. Lbs.
		A.C. Volts	D.C. Ma. Cond. In	D.C. Ma. Choke In	Volts	Amps				
HSM-200	TF4RX03FA	120‡	100	127	6.3 CT	1.6	1500	1⅛	FA	2
HSM-201	TF4RX03GA	250–0–250‡	20	25.4	6.3 CT	2	1500	1⅞	GA	3.2
HSM-203	TF4RX03JB	300–0–300‡	50	63.5	6.3 CT 5	2.5 2	1500	1⅞	JB	4.85
HSM-205	TF4RX03JA	350–0–350‡	70	89	6.3 CT 5	3 3	1500 2000	1⅞	JA	6.1
HSM-207	TF1RX03KA	350–0–350‡	120	153	6.3 CT 5	5 3	1500	1⅞	KA	8.75
HSM-241	TF1RX03LA	350–70–0–350‡	150	190	6.3 CT 6.3 5	6 2 3	1500	1⅞	LA	10.75
HSM-212	TF1RX03LA	500–400–0–400–500‡	150	190	6.3 CT* 6.3* 6.3/5*†	4 4 4	2000 1500	1⅞	LA	11
HSM-245	TF1RX03MA	400–350–0–70–350–400‡	200	254	6.3 CT 6.3 5	6 4 6	1500	1⅞	MA	15
HSM-216	TF1RX03MA	500–400–0–400–500‡	200	254	6.3 CT* 6.3* 6.3/5*†	5 5 4	2000	1⅞	MA	14.5
HS-247	TF1RX03YY	400–350–0–70–350–400‡	300	380	6.3 CT 6.3 5	8 4 6	1500	1⅞	GP–15	21.75
HSM-218▲	TF1RX03YY	500–400–0–400–500‡	235	300	6.3 CT* 6.3* 6.3/5*†	6 6 6	2000	1⅞	GP–15	24.5
HSM-219▲ 115/230V. Pri	TF1RX02YY	800–380–0–380–800‡	(800)31.5 (1600)180	40 230	–	–	2800	Special	GP–15	22.5

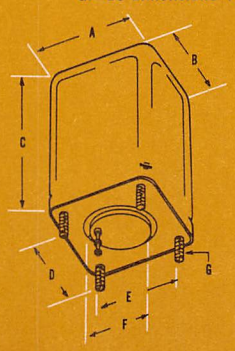
FILAMENT / 50-60 cycle

Type No.	Mil Type No.	Primary Volts	Filaments		RMS Test Voltage	F. Dim. Inches (Min.)	Mil Type Case	Max. Unit Wt. Lbs.
			Volts	Amps				
HSM-223	TF4RX01YY	115	6.3	.6	1500	1⅛	AJ-2■■	.75
HSM-225	TF4RX01EA	0–105–115–125	6.3 CT	2	1500	1⅛	EA	1.25
HSM-226	TF4RX01FA	0–105–115–125	6.3 CT	3.6	1500	1⅛	FA	2
HSM-224	TF4RX01HB	0–105–115–125	6.3 CT	5.5	2000	1⅛	HB	4.5
HSM-234	TF1RX01KA	0–105–115–125	6.3 CT* 6.3*	10 10	Pri. 1500 Sec. 2500	1⅞	KA	9.15
HSM-227	TF4RX01GA	0–105–115–125	6.3 CT* 6.3*	3 3	Pri. 1500 Sec. 2500	1⅞	GA	3.25
HSM-229	TF4RX01JB	0–105–115–125	6.3 CT	8	2500	1⅛	JB	5
HSM-233	TF4RX01EA	0–105–115–125	12.6 CT	.8	1500	1⅛	EA	1.25
HSM-237	TF4RX01FA	0–105–115–125	12.6 CT	2	2000	1⅛	FA	2
HSM-230	TF4RX01FA	0–105–115–125	24 CT	.8	1500	1⅛	FA	2
HSM-239	TF4RX01GA	0–105–115–125	24 CT	1.5	1500	1⅛	GA	3.25
HSM-240	TF4RX01GA	0–105–115–125	12.6 CT* 12.6 CT*	1.5 1.5	1500	1⅞	GA	3.25
HSM-236	TF4RX01JB	0–105–115–125	12.6 CT* 12.6*	2 2	2500	1⅞	JB	6.5
HSM-228	TF4RX01JA	0–105–115–125	6.3 CT* 6.3*	6 6	Pri. 1500 Sec. 2500	1⅞	JA	6.3
HSM-231	TF4RX01JB	0–105–115–125	6.3 CT 5 CT	5 3	2500	1⅞	JB	4.9
HSM-232▲	TF4RX01HA	0–105–115–125	2.5 CT	10	Pri. 1500 Sec. 7500	Special Hi-Voltage	HA	4
HSM-235▲	TF1RX01MA	0–105–115–125	10 CT 2.5 CT	10 10	2500 7500	Special	MA	13
HSM-238	TF4RX01JA	0–105–115–125	26 CT* 26*	2 2	2000		JA	

* Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — OR connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.

New Item. ■■ See case chart, page 9. ▲ Discontinued item available until stock depleted. CT For Center Tap. † Tapped for 5-Volt rectifier use. ‡ Static shield.

GP–15 dimensions 4-¾" x 5-⅞" x 6-⅝" high. Weight approximately 22 pounds, mounting centers 3¾" x 4-⅞".



HS & HSM Case

	AH	AJ	EA	EB	FA	FB	GA
A	1 5/16	1⅝	1 13/16	1 13/16	2 1/16	2 1/16	2 3/8
B	1 5/16	1⅝	1 15/16	1 15/16	2 5/16	2 5/16	2 3/4
C	1¾	2 3/8	2¾	2 7/16	3⅛	2½	3 13/16
D	1¼	1 3/16	1 3/8	1 3/8	1 11/16	1 11/16	2 1/16
E		1 3/16	1¼	1¼	1 7/16	1 7/16	1¾
G	⅜	⅜	⅜	⅜	⅜	⅜	⅜
I	6-32	6-32	6-32	6-32	6-32	6-32	6-32
Wt. (ave.) lbs.	4 oz.	9 oz.	1	15 oz.	1¾	1½	2

Triad's 400 Series is hermetically sealed to comply with MIL–T–27A Specifications . . . marked for 400 cycle operation, provide highest efficiency at 380–1500 cycles. Triad craftsmanship offers more advantages spacewise, weightwise, in shielding techniques and overall performance.

POWER COMPONENTS
HERMETICALLY SEALED

COMBINED PLATE AND FILAMENT / primary 115 volt / 380-1500 cycle

Type No.	Mil Type Number	Secondary Plate Supply A.C. Volts	D.C. Ma. Cond. In	D.C. Ma. Choke In	Filaments Volts	Filaments Amps	RMS Test Voltage	F. Dim Inches (Min)	Mil Case Type	Max. Unit Wt. Lbs.
HS-402	TF4RX03AJ	238–0–238‡	20	25.5	6.3 CT	1.5	1500	1 3/16	AJ	.75
HS-401	TF4RX03EB	250–0–250‡	40	51	6.3 CT* 6.3*	1 1	1500	1	EB	1.2
HS-405	TF4RX03GA	300–0–300‡	70	89	6.3 CT* 6.3* 6.3/5*†	2 2 2	1500	1 1/16	GA	2.7
HS-407	TF4RX03JB	300–0–300‡	120	152	6.3 CT* 6.3* 6.3/5†	3.5 3.5 3	1500	1 1/16	JB	4.65
HS-409	TF4RX03HA	350–0–350‡	150	190	6.3 CT 6.3/5†	4 3	1500	1 1/16	HA	3.75
HS-413	TF4RX03JA	225–0–225‡	200	254	6.3 CT* 6.3* 6.3/5†	6 6 4	1500	1 1/16	JA	5.5
HS-415	TF1RX03KB	400–300–0–300–400‡	200	254	6.3 CT* 6.3* 6.3/5*†	6 6 6	2500	1 1/16	KB	7.5
HS-417	TF1RX03LA	400–300–0–300–400‡	300	380	6.3 CT* 6.3* 6.3/5*†	6 6 6	2500	1 1/16	LA	10

ISOLATION / primary 115 volt / 380-1500 cycle

Type No.	Mil Type No.	Secondary Volts	Secondary Current	Secondary VA	RMS Test Voltage	F. Dim. Inches (Min.)	Mil Case Type	Max. Unit Wt. Lbs.
HS-470‡	TF4RX01EA	115	.35A.	40	1500	1 1/8	EA	1.5
HS-471‡	TF4RX01FA	115	.7A.	80	1500	1 1/8	FA	2
HS-472‡	TF4RX01GA	115	1.39A.	160	1500	1 1/8	GA	3.1
HS-474‡	TF4RX01JA	115	2.6A.	300	1500	1 1/8	JA	6.25
HS-475‡	TF1RX01KA	115	4.4A.	505	1500	1 1/8	KA	8.75

FILAMENT / 380-1500 cycle

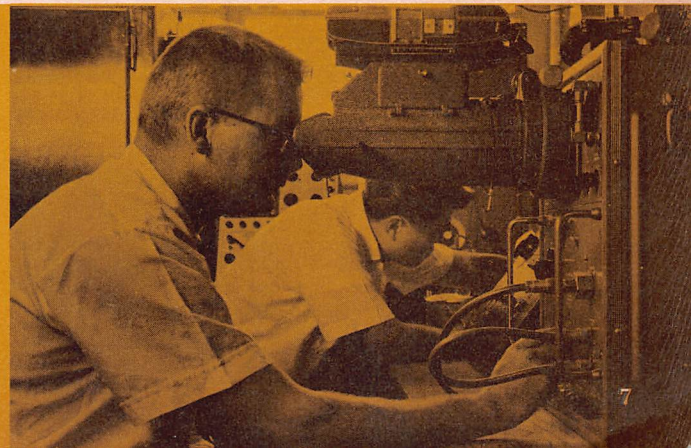
Type No.	Mil Type No.	Volts Primary	Filaments Volts	Filaments Amps	RMS Test Voltage	F. Dim. Inches (Min.)	Mil Type Case	Max. Unit Wt. Lbs.
HS-436	TF4RX01AH	115	6.3 CT	1	1500	1 3/16	AH	.3
HS-425	TF4RX01YY	0–105–115–125	6.3 CT	2	1500	1 1/16	AJ-2■■	.65
HS-427	TF4RX01EA	0–105–115–125	6.3 CT	5	Pri. 500 Sec. 2500	1 1/8	EA	1.12
HS-445	TF4RS01EA	0–105–115–125	12.6 CT	2.5	2000	1 1/8	EA	1.2
HS-438	TF4RX01EA	0–105–115–125	24 CT	1.5	1500	1 1/8	EA	1.2
HS-433	TF4RX01FA	0–105–115–125	6.3 CT* 6.3*	5 5	Pri. 1500 Sec. 2500	1 1/16	FA	2
HS-435	TF4RX01FA	0–105–115–125	6.3 CT* 6.3* 6.3/5†	3.5 3.5 3	2000	1 1/16	FA	1.85
HS-441	TF4RX01HA	0–105–115–125	5 CT* 5* 2.5 CT	10 10 10	2000 7500	Special	HA	4
HS-443	TF4RX01YY	0–105–115–125	12.6 CT* 12.6*	.8 .8	1500	1	AJ-2■■	.75
HS-442	TF4RX01FA	0–57.5–99.7–115–120	12.6 CT* 12.6*	2 2	1500	1	EA	1.25
HS-444	TF4RS01FA	0–57.5–99.7–115–120	26 CT* 26 CT*	2 2	2000	1	FA	1.9

* Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — OR connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.

New Item. ■■ See case chart, page 9. † Tapped for 5-Volt rectifier use. CT For Center Tap. ‡ Static shield.

	GB	HA	HB	JA	JB	KA	KB
A	2 3/8	2 5/8	2 5/8	3 1/16	3 1/16	3 3/8	3 3/8
B	2 3/4	3 1/16	3 1/16	3 9/16	3 9/16	3 15/16	3 15/16
C	2 13/16	4 1/4	3 3/16	4 7/8	3 7/8	5 1/4	4 5/16
D	2 1/8	2 19/64	2 19/64	2 5/8	2 5/8	3	3
E	1 3/4	1 55/64	1 55/64	2 1/8	2 1/8	2 7/16	2 7/16
G	3/8	3/8	3/8	3/8	3/8	1/2	1/2
I	6-32	8-32	8-32	8-32	8-32	10-32	10-32
Wt. (ave.) lbs.	1 3/4	2 1/2	2 1/4	4 1/2	4	7 3/4	7

	LA	LB	MA	MB	NA	NB
A	3 11/16	3 11/16	4	4	4 5/16	4 5/16
B	4 5/16	4 5/16	4 11/16	4 11/16	5 1/16	5 1/16
C	5 5/16	4 1/2	6	4 15/16	6 13/16	5 1/2
D	3 5/16	3 5/16	3 11/16	3 11/16	4 1/16	4 1/16
E	2 11/16	2 11/16	3	3	3 5/16	3 5/16
G	1/2	1/2	5/8	5/8	5/8	5/8
I	10-32	10-32	1/4-20	1/4-20	1/4-20	1/4-20
Wt. (ave.) lbs.	9 1/4	8 1/2	13 1/2	12 1/2	18	16



POWER COMPONENTS
HERMETICALLY SEALED

Specifically engineered for critical circuitry where minimum capacity is imperative for complete balance, Triad offers super box shielded isolation types unequalled in today's market. Vacuum potted in epoxy resin, capacity between windings is held to under .03 mmfd. For DC amplifiers . . . strain gages . . . power supplies . . . bridge circuits . . . wherever complete balance is a requirement . . . Triad gives the finest performance.

Manufactured to MIL–T–27A, Triad heremetically sealed filter reactors meet tolerances within plus 50, minus 20 percent.

ISOLATION / 50-60 cycle

Type No.	Mil Type No.	Secondary Volts	Secondary Current	Secondary VA	RMS Test Voltage	F. Dim. Inches (Min.)	Mil Case Type	Max. Unit Wt. Lbs.
HSM-270	TF4RX01JB	0–105–115–125	.4A.	50	1500	1	JB	4.7
HSM-271	TF1RX01KA	0–105–115–125	1A.	125	1500	1	KA	9.25
HSM-272	TF1RX01NB	0–105–115–125	2A.	250	1500	1 7/16	NB	17.25

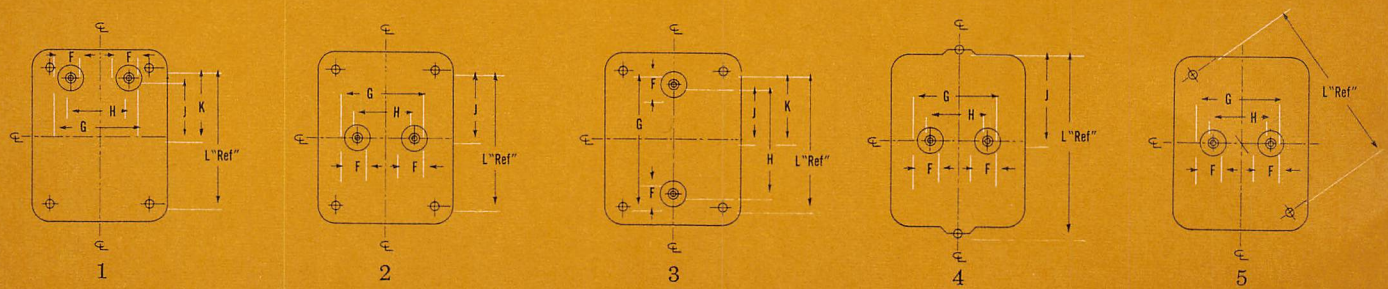
SUPER BOX SHIELDED ISOLATION / 50-60 cycle / epoxy potted with leads

Type No.	Secondary Volts	Secondary Current	VA	RMS Test Volts	Chassis Cut-Out For Leads	Case Type	Max. Unit Wt. Lbs.
HC-25	115	.218A	25	1000	3/4	GA	3
HC-115	115	1A	115	1000	3/4	KA	8.5
HC-300	115	2.6A	300	1000	3/4	NB	20

FILTER REACTORS / high inductance items usually used in 50–60 cycle power supplies ...low inductance in 400 cycle supplies

Type No.	Mil Type Number	D.C. MA	Inductance Henries	D.C. Resistance	RMS Test Voltage	Terminal Dwg No.	Drawing Dimensions F	G Max	H	J	K	L ± 1/64	Mil Case Type	Max. Unit Wt. Lbs.
HSM-301	TF4RX04EB	20	30	1000	1500	1	3/8	27/32	7/16	5/8	11/16	1 3/8	EB	1.2
HSM-302	TF4RX04AJ	20	14	560	1500	–	9/16						AJ	.75
HS-331	TF4RX04YY	40	4	375	1500	4	3/8	29/32	1/2	43/64	43/64	1 11/32 ± 1/32	AH-2■■	.35
HS-303	TF4RX04EB	50	12	385	1500	2	5/8	1 23/64	11/16	11/16	11/16	1 3/4	EB	1.25
HS-333	TF1RX04YY	70	3	225	1500	5	3/8	29/32	1/2	–	–	1 5/8	AJ-2■■	.75
HSM-305	TF4RX04GB	70	15	300	2500	3	5/8	2 13/32	1 3/4	7/8	1 1/16	2 1/8	GB	2.4
HS-335	TF4RX04EB	120	3	150	1500	1	3/8	27/32	7/16	9/16	11/16	1 3/8	EB	1.12
HSM-307	TF4RX04JB	120	15	185	2500	1	5/8	1 11/32	11/16	1 1/8	1 5/16	2 5/8	JB	5.25
HSM-309	TF4RX04JB	150	9	115	2500	1	5/8	1 11/32	11/16	1 1/8	1 5/16	2 5/8	JB	5.25
HS-339	TF4RX04FB	200	3	105	2000	1	3/8	59/64	1/2	27/32	27/32	1 11/16	FB	1.75
HSM-315	TF4RX04JA	200	10	100	2500	1	5/8	1 11/32	11/16	1 1/8	1 5/16	2 5/8	JA	6.6
HS-341	TF4RX04GB	300	2	48	2000	1	3/8	29/32	1/2	1	1 1/16	2 1/8	GB	2.5
HSM-319	TF1RX04LA	300	10	85	2500	1	5/8	1 11/32	11/16	1 1/2	1 21/32	3 5/16	LA	12.2

New Item. ■■ See case chart, page 9.



Leader in the field of miniaturization, Triad provides finest units, built to MIL specs, featuring layer wound coils of microscopically fine wire, Trialloy nickel alloy magnetic shielding, superior performance, wide frequency ranges, consistently stable operational characteristics.

MINIATURES HERMETICALLY SEALED

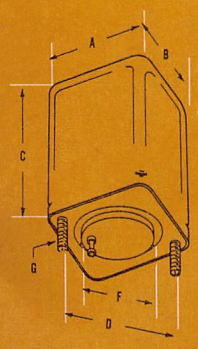
JAF SERIES

Type No.	Mil. Type Number	Power Output	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Magnetic Shielding	F. Dim. Inch Min.	Case	Max. Unit Wt. Lbs.
JAF-1‡	TF1QX10YY	1MW.	Line or Mike to Grid	600/250/50	15,000	100	3180	1:9.16	60–15,000	500	45DB	5/8	AF	.1
JAF-2‡	TF1QX10YY	1MW.	Line or Mike to Grid	600/250/50	250,000	48	3600	1:20.6	100–15,000	500	45DB	5/8	AF	.1
JAF-3	TF1QX10YY	1MW.	Line or Mike to Sgl. or P.P. Grids	600/250/50	60,000 CT	125	3600	1:10	60–15,000	500	45DB	5/8	AF	.1
JAF-5‡	TF1QX10YY	1MW.	Mike to Voice Coil to Grid	30/12/4	50,000	10	4100	1:39.7	50–15,000	500	45DB	5/8	AF	.1
JAF-11	TF1QX10YY	10MW.	Plate to Grid	15,000	50,000	1100	2860	1:1.81	60–15,000	500	45DB	5/8	AF	.1
JAF-12	TF1QX10YY	10MW.	Plate to Sgl. or P.P. Grids	15,000	60,000 CT	1350	2700	1:2	60–15,000	500	45DB	5/8	AF	.1
JAF-13	TF1QX15YY	10MW.	Plate to Sgl. or P.P. Grids	15,000 3 MA. D.C.	95,000 CT	1330	3330	1:2.5	250–55,000	500	45DB	5/8	AF	.1
JAF-14‡	TF1QX10YY	10MW.	Line to Grid	200	500,000	100	4900	1:50	200–10,000	500	45DB	5/8	AF	.1
JAF-15	TF1QX10YY	10MW.	Plate to Grid	15,000	1 Megohm	550	4450	1:8.2	150–15,000	500	45DB	5/8	AF	.1
JAF-21	TF1QX16YY	10MW.	Plate to Line	15,000	600/250/50	1330	58	4.98:1	60–15,000	500	45DB	5/8	AF	.1
JAF-22	TF1QX13YY	10MW.	Plate to Line	15,000 3 MA. D.C.	600/250/50	1450	58.8	4.98:1	100–50,000	500	45DB	5/8	AF	.1
JAF-23	TF1QX16YY	10MW.	Sgl. or P.P. Plates to Line	20,000 CT	600/250/50	2000	70	5.76:1	40–30,000	500	45DB	5/8	AF	.1
☛JAF-24	TF1QX13YY	10MW.	Plate or Transistor to Transistor	10,000 CT	2000 CT	1000(t)	200(t)	2.24:1	50–20,000	500	45DB	5/8	AF	.1
☛JAF-25	TF1QX13YY	15MW.	Transistor to Transistor or Line	15,000 CT	600 CT/150§§§	150(t)	60(t)	1.58:1	50–15,000	500	45DB	5/8	AF	.1
☛JAF-26	TF1QX13YY	10MW.	Transistor to Line or Transistor	50,000 CT .5 MA. D.C.	600 CT/150§§§	3800(t)	60(t)	9.1:1	100–15,000	500	45DB	5/8	AF	.1
JAF-31‡	TF1QX16YY	10MW.	Line to Line	600/250/50	600/250/50	80	85	1:1	50–50,000	500	45DB	5/8	AF	.1
☛JAF-32	TF1QX13YY	25MW.	Transistor to Transistor or Line	15,000 CT .6 MA. D.C.	600 CT/150§§§	150(t)	60(t)	1.58:1	50–15,000	500	45DB	5/8	AF	.1
JAF-33‡	TF1QX21YY	10MW.	Line to Line Hi Imp. Isolation	5,000 CT	5000 CT	1710	2425	1:1	60–15,000	500	45DB	5/8	AF	.1
☛JAF-34	TF1QX17YY	25MW.	Transistor or Line to Transistor or Line	500 CT	500 CT/125§§§	50(t)	50(t)	1:1	50–20,000	500	45DB	5/8	AF	.1
☛JAF-35	TF1QX17YY	25MW.	Transistor or Line to Transistor	600 CT	2000 CT/500§§§	60(t)	200(t)	1:1.83	50–20,000	500	45DB	5/8	AF	.1
JAF-101	TF1QX20YY	10MW.	Coupling Reactor	50 Henries .75 MA. D.C.		4000	–	–	–	500	45DB	5/8	AF	.1
☛JAF-102	TF1QX20YY	—	Coupling Reactor	8 HY. or 3 MA. D.C.	2 HY– 6 MA D.C.	220(t)	–	–	–	500	45DB	5/8	AF	.1

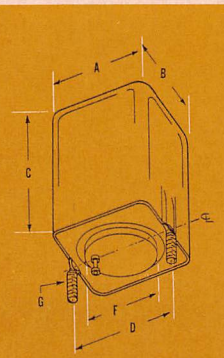
SUB-MINIATURE AUDIO

Type No.	Mil. Type Number	Power Output	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Case	Max. Unit Wt. Lbs.
JZ-1	TF1QX10YY	1MW.	Line or Mike to Grid	600/250/50	60,000	350	4100	1:10	70–20000	500	JZ	.03
JZ-5	TF1QX10YY	1MW.	Mike or Voice Coil to Grid	30/12/4	50,000	11.5	3800	1:40.5	70–20000	500	JZ	.03
JZ-7	TF1QX16YY	1MW.	Mike or Voice Coil to Transistor	30/12/4	1000	5	480	1:5.73	40–20000	500	JZ	.03
JZ-13	TF1QX15YY	1MW.	Plate to Single or Push-Pull Grids	15000 1 MA. D.C.	135,000 CT	985	4400	1:3	70–15000	500	JZ	.03
JZ-15	TF1QX15YY	1MW.	Transistor Interstage	20000 .5 MA. D.C.	1200/600/ 100	2700	350	4.08:1	70–15000	500	JZ	.03
JZ-25	TF1QX13YY	1MW.	Plate or Transistor to Transistor or Line	10000 1 MA. D.C.	200	1500	120	7.05:1	70–20000	500	JZ	.03
JZ-26	TF1QX21YY	1MW.	Transistor to Line or Transistor	1000 5 MA. D.C.	50	355	20	4.5:1	100–10000	500	JZ	.03

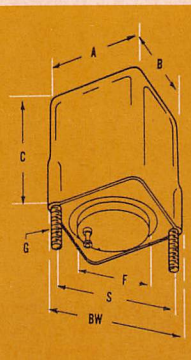
☛New Item. ‡ Static shield. **CT** For Center Tap. §§§ Split winding. (t) Tentative data.



AJ–2 Case



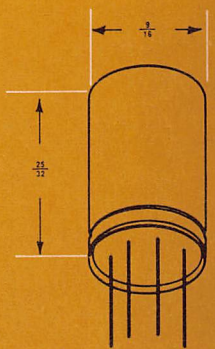
AH-2 Case



AF Case

	AF	AG	AH-2	AJ-2	JZ*†
A	51/64	1	1 5/16	1 5/8	5/16 dia.
B	51/64	1	1 5/16	1 5/8	Round
*†Bw	1 3/64	1 3/32	1 11/32		
C	1 5/32	1 3/8	1 3/4	2 3/8	25/32
D	*27/32	*1 1/32	*1 11/32	*1 5/8	
F	5/8	3/4	7/8	7/8	
I	4-40	6-32	6-32	6-32	
Unit Wt.	2 1/2 max.	2 1/2 oz.	5 1/4 oz.	11 oz.	.5 oz.

*Not in conformance with MIL-T-27A
†Not in conformance with MIL-T-27



JZ Case

MINIATURES

Trialloy nickel alloy magnetic shielding, layer wound coils of microscopically fine wire, craftsmanship in design and assembly techniques . . . make Triad miniatures superior. Built in compliance with MIL Specs, rely on top performance when you specify Triad miniatures for demanding applications, whether open frame construction or hermetically sealed units.

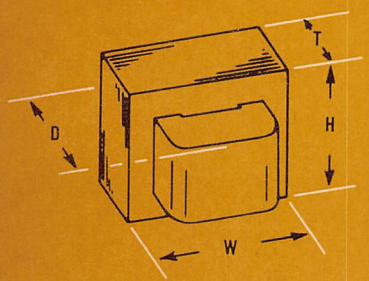
JO-SERIES / hermetically sealed

Type No.	Mil. Type Number	Power Output	Application	Matching Impedance Primary	Matching Impedance Secondary	DC Resistance Primary	DC Resistance Secondary	Overall Turns Ratio	Freq. Resp. ± 3 DB	RMS Test Voltage	Magnetic Shielding	F. Dim. Inches Min.	Case	Max. Unit Wt. Lbs.
JO-1‡	TF1QX10YY	1 MW	Line or Mike to Grid	600/250/50	50,000	100	3180	1:9.16	60–15,000	500	45DB	1	JOA	.17
JO-2‡	TF1QX10YY	1 MW	Line or Mike to Grid	600/250/50	250,000	48	3600	1:20.6	60–15,000	500	45DB	1	JOA	.17
JO-3	TF1QX10YY	1 MW	Line or Mike to Single or P.P. Grids	600/250/50	60,000 CT	125	3600	1:10	50–15,000	500	45DB	1	JOA	.17
JO-5‡	TF1QX10YY	1 MW	Mike or Voice Coil to Grid	30/12/4	50,000	10	4100	1:39.7	50–12,000	500	45DB	1	JOA	.17
JO-11	TF1QX10YY	10 MW	Plate to Grid	15,000 0 MA D.C.	60,000	1100	2860	1:2	50–15,000	500	45DB	1	JOB	.17
JO-12	TF1QX10YY	10 MW	Plate to Single or Push-Pull Grids	15,000 0 MA D.C.	60,000 CT	1350	2700	1:2	50–15,000	500	45DB	1	JOB	.17
JO-13	TF1QX15YY	10 MW	Plate to Single or P.P. Grids	15,000 3 MA D.C.	95,000 CT	2415	5570	1:2.3	50–15,000	500	45DB	1	JOB	.17
JO-21	TF1QX16YY	10 MW	Plate to Line	15,000 0 MA D.C.	600/250/50	1330	58	4.98:1	20–20,000	500	45DB	1	JOB	.17
JO-22	TF1QX13YY	10 MW	Plate to Line	15,000 3 MA D.C.	600/250/50	1190	88	5:1	100–10,000	500	45DB	1	JOB	.17
JO-23	TF1QX13YY	10 MW	Single or P.P. Plates to Line	20,000 CT 0 MA D.C.	600/250/50	1695	40	5.76:1	40–30,000	500	45DB	1	JOB	.17
JO-31‡	TF1QX16YY	10 MW	Line to Line	600/250/50	600/250/50	45	50	1:1	40–20,000	500	45DB	1	JOB	.17
JO-101	TF1QX20YY	–	Coupling Reactor	50 HY 2 MA D.C.	–	4000	–	–	–	500	45DB	1	JOB	.17

SUBMINIATURE AUDIO / open frame

Type No.	Power Output	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	Frequency Response + 3DB	RMS Test Volts	Case Type	Connections	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Max. Unit Wt. Lbs.
TZ-1	1MW.	Input–Line or Mike to Grid	600/250/50	60,000	350	4100	1:10	70–20,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-2XT	1MW.	Line or Mike to Grid	200 CT	200,000	35(t)	5000(t)	1:31.6	100–20,000	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015
TZ-5	1MW.	Input–Mike or V.C. to Grid	30/12/4	50,000	11.5	3800	1:40.5	70–20,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-7	1MW.	Input–Mike or V.C. to Transistor	30/12/4	1000	5	480	1:5.73	40–20,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-13	1MW	Interstage–Plate to Single or P.P. Grids	15,000 1 MA. D.C.	135,000 CT	985	4400	1:3	70–15,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-15	1MW.	Transistor Interstage	20,000 .5 MA. D.C.	1200/600/100	2700	350	4.08:1	70–15,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-24XT	1MW.	Plate or Transistor to Line or Transistor	25,000 CT	500 CT	2000(t)	60(t)	7.1:1	100–15,000	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015
TZ-17XT	1MW.	Plate or Transistor to Transistor	10,000 CT	2000 CT	1000(t)	250(t)	2.24:1	70–15,000	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015
TZ-29XT	1MW.	Transistor Isolation High Impedance	10,000 CT	10,000 CT	1100(t)	1400(t)	1:1	70–15,000	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015
TZ-25	1MW.	Output–Plate to Line	10,000 1 MA. D.C.	200	1500	120	7.05:1	70–20,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-32XT	10MW.	Transistor to Line or Transistor	1500 CT	600 CT/150§§§	160(t)	65(t)	1.58:1	70–20,000	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015
TY-28XT	10MW.	Transistor to Line or Transistor	500 CT 2 MA. D.C.	200 CT	38	25	1.58:1	300–15,000	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015
TY-27XT	10MW.	Transistor to Line or Transistor	500 CT 2 MA. D.C.	500 CT	37	51	1:1	300–15,000	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015
TZ-26	1MW.	Transistor Output	1000 5 MA. D.C.	50	355	20	4.5:1	100–10,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-28	1MW.	Transistor Input	600	50	94.5	11	3.47:1	40–60,000	500	–	Leads	12–13	1/8	7/16	1/2	7/16		.015
TZ-103XT	–	Coupling Reactor	4 Hy. or 1 Hy.	–	400(t)	–	–	–	500	XT	Leads	12–13	1/8	7/16	17/32	7/16	17/32	.015

New Item. (t) Tentative data. §§§ Split winding. **CT** For Center Tap. ‡ Static shield.



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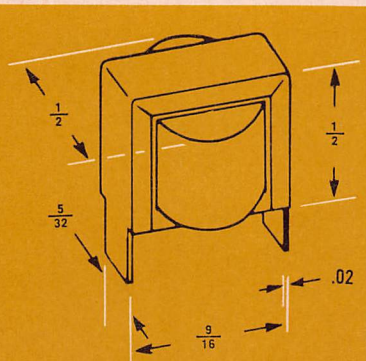
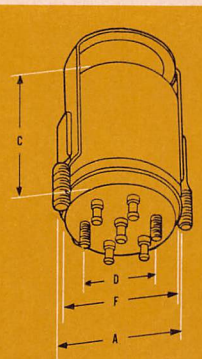


XT Case



JO Case

	JOA	JOB
A	15/16 dia.	15/16 dia.
B	Round	Round
C	1 13/32	1 25/32
D	9/16	9/16
F	7/8	7/8
Unit Wt.	2 oz.	2½ oz.

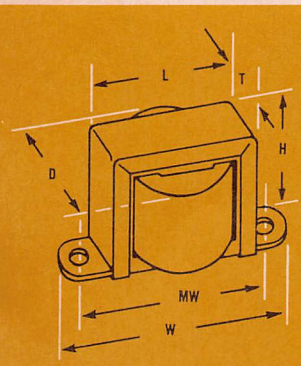
Triad Trijets have a history of surpassing the performance requirements of specifications in case after case. They have exceeded requirements of shock tests, operational temperature limits, life expectance . . . Trijets are the finest MIL Type miniature units available. Manufactured to Triad's rigid quality control standards, dependability has become an integral feature of every Trijet produced.

MINIATURE AUDIO / trijets

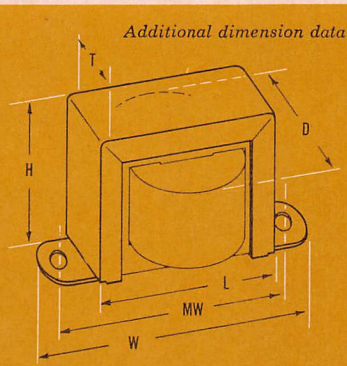
Type No.	Power Output	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	Frequency Response + 3DB	RMS Test Volts	Case Type	Connections	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Max. Unit Wt. Lbs.
T-1X‡	1MW.	Line or Mike to Grid	600/250/50	50,000	80	3200	1:9.16	60–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-2X‡	1MW.	Line or Mike to Grid–Hi Gain	600/250/50	250,000	44	3600	1:20.6	100–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-3X	1MW.	Line or Mike to Single or P.P. Grids	600/250/50	60,000 CT	100	3600	1:10	60–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-5X‡	1MW.	Mike or Voice Coil to Grid	30/12/4	50,000	7	3500	1:39.7	50–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-11X	10MW.	Interstage–Plate to Grid	15,000	50,000	1100	2860	1:1.81	60–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-12X	10MW.	Interstage–Plate to Single or P.P. Grids	15,000	60,000 CT	1350	2700	1:2	60–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-13X	10MW.	Interstage–Plate to Single or P.P. Grids	15,000 3 MA. D.C.	95,000 CT	1330	3330	1:2.5	250–55,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-14X‡	10MW.	Line to Grid	200	500,000	100	4900	1:50	200–10,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-15X	10MW.	Plate to Grid	15,000	1 Megohm	550	4450	1:8.2	150–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-20X	10MW.	Output–Plate to Line	15,000	600/250/50	1330	58	5:1	60–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-21X	10MW.	Output–Plate to Line	30,000	50	1100	15	24.5:1	100–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-22X	10MW.	Output–Plate to Line	15,000 3 MA. D.C.	600/250/50	1450	58.8	5:1	100–50,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-23X	10MW.	Output–Single or P.P. Plates to Line	20,000 CT	600/250/50	2000	70	5.76:1	40–60,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-24X	10MW.	Plate or Transistor to Transistor	10,000 CT	2000 CT	1000(t)	200(t)	2.24:1	50–20,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-25X	10MW.	Plate to Line or Transistor	12,000 CT 2 MA. D.C.	600 CT/150§§§	1000(t)	60(t)	4.47:1	50–16,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-26X	10MW.	Transistor to Line or Transistor	50,000 CT .5 MA D.C.	600 CT/150§§§	3800(t)	60(t)	9.1:1	100–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-31X‡	10MW.	Line to Line	600/250/50	600/250/50	80	85	1:1	50–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-32X	20MW.	Transistor to Transistor or Line	1500 CT 6 MA. D.C.	600 CT/150§§§	150(t)	60(t)	1.58:1	50–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-33X‡	10MW.	Isolation–High Impedance	5000 CT	5000 CT	1710	2425	1:1	60–15,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-41X	1MW.	Transistor–Driver–Single to Push-Pull	1000 10 MA. D.C.	200 CT	428	128	2.25:1	20–15,000	500	X	Leads	18	3/16	⅝	1 3/32	1 1/16	1 1/16	.04
T-42X	1MW.	Transistor–Output–Single to Voice Coil	9800 2 MA. D.C.	15	855	1.73	25.5:1	200–50,000	500	X	Leads	18	3/16	⅝	1 3/32	1 1/16	1 1/16	.04
T-34X	20MW.	Transistor or Line to Transistor or Line	500 CT	500 CT/125§§§	50(t)	55(t)	1:1	50–20,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-35X	20MW.	Transistor or Line to Transistor	600 CT	2000 CT/500§§§	60(t)	200(t)	1:1.83	50–20,000	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-101X	10MW.	Audio Choke	50 HY .75 MA. D.C.	–	4000	–	–	–	500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045
T-102X	–	Coupling Reactor	8 Hy. or 2 Hy. 3 MA. D.C. 6 MA. D.C.	–	220(t)	–			500	X	Leads	18	¼	⅝	1 7/32	¾	1	.045

New Item. (t) Tentative data. §§§ Split winding. **CT** For Center Tap. ‡ Static shield.

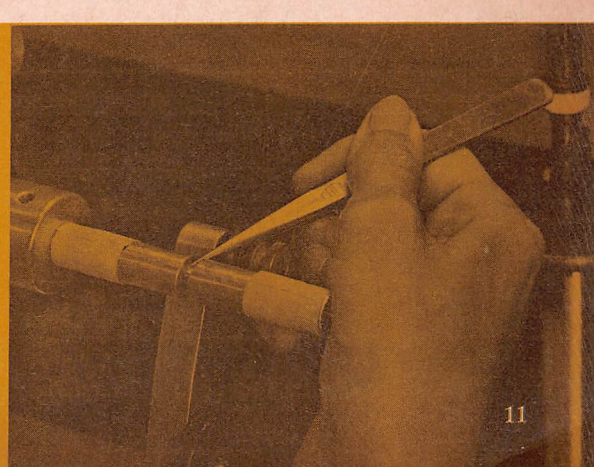
Additional dimension data Page 40



Small X Case



X Case



AUDIO

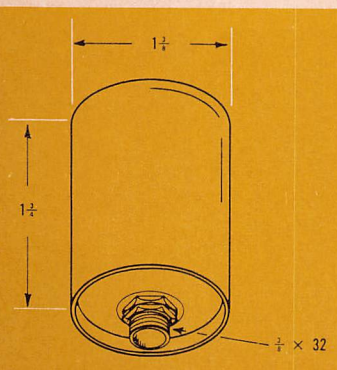
LOW POWER

Triad J Series offers flexibility enabling your amplifiers to exceed broadcast standards. Although economy in construction has cut costs, these transformers approach and closely approximate performance characteristics found in more costly hermetically sealed parts. Single hole mounting provides for rotation for maximum reduction of hum . . . alloy shielding gives you 40–60 db hum reduction (60–80 db in Types A–11J & A–12J). . . you can obtain wide frequency ranges . . . flexible leads facilitate ease in mounting . . . input units are electrostatically and magnetically shielded . . . light weight and encased in Triad's satin smooth baked gray enamel cases, 1⅜" diameter, 1¾" above chassis . . . legible circuit diagrams are permanently affixed to every case.

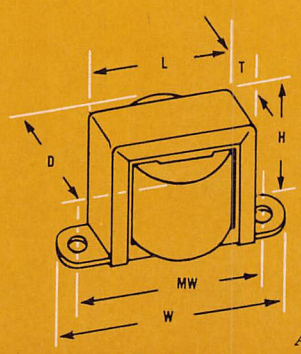
J SERIES

Type No.	Power Output	Application	Matching Impedance Primary	Matching Impedance Secondary	D. C. Resistance Primary	D. C. Resistance Secondary	Overall Turns Ratio	Freq. Resp. ± 3DB	RMS Test Voltage	Case Type	Connections	Case Dim. H	Case Dim. D	Mtg. Hole Diameter	Max. Unit Wt. Lbs.
A-9J‡	1MW	Line or Mike to Grid	600/250/50	86,500	32.7	3450	1:12	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-10J‡	1MW	Balanced Line or Mike to Single Grid	600 CT/150 §§§	66,000	33.7	3380	1:10.5	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-11J‡	10MW	Line or Mike to Grid	600/250/50	60,000	50	5000	1:10	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-12J‡	10MW	Balanced Line or Mike to Grid	600 CT/150 §§§	60,000	50	4920	1:10	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-13J‡	1MW	Line to Line or Transistor	600/300/200 CT/ 110/50 §§§	600 CT/ 150 §§§	62	70	1:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
New A-52J‡	100MW	Line or Transistor to Line or Transistor	500 CT/125 §§§ 20 MA D.C.	2000 CT/ 500 §§§	50(t)	200(t)	1:2	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
New A-56J‡	100MW	Line or Transistor to Voice Coil	500 CT/125 §§§ 20 MA D.C.	16/4 §§	50(t)	1.5(t)	5.6:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
New A-64J‡	1W	Line or Transistor to Transistor	100 CT/25 §§§ 30 MA D.C.	40 CT/ 10 §§§	10(t)	4(t)	1.58:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.4
New A-70J‡	100MW	Line or Transistor to Line or Transistor	500 CT/125 §§§ 15 MA D.C.	100 CT/25 §§§	50(t)	10(t)	2.24:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-79J	200MW	Transistor to P-P Transistors or Line	1000 10 MA D.C.	200 CT/50 §§§	302	138	2.2:1	20–15,000	500	J	Leads	1¾	1⅜	⅜	.35
New A-50J‡	750MW	P-P Plates to Voice Coil	10,000 CT	4/8	1000(t)	.8(t)	35.3:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.4
New A-58J‡	100MW	P-P Plates or Transistors to Line or Transistors	10,000 CT/ 2500 §§§	2000 CT/ 500 §§§	1000(t)	200(t)	2.24:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-40J	10MW	Plate to 1 or 2 Grids	15,000	115,000 CT	1540	4020	1:2.76	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-41J	32MW	Tube to 1 or 2 Grids	15,000 8 MA D.C.	80,000 CT	1392	8109	1:2.3	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-55J	100MW	Plate to Line	15,000	600/250/ 50	1020	46	5:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-65J	100MW	Single or Push-Pull Plates to Balanced Line	15,000 CT	600 CT/150 §§§	1630	73	5:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-66J	100MW	Plate to Line	15,000 5 MA D.C.	600/250/ 50	1740	81.2	5:1	40–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-68J	100MW	Sgl or P-P Plates to Balanced Line	15,000 CT 4 MA D.C.	600 CT/150 §§§	1723	81	5:1	40–15,000	500	J	Leads	1¾	1⅜	⅜	.35
New A-69J‡	200MW	P-P Plates or Bridging to Line	25,000 CT/ 6250 §§§ 3 MA D.C.	500 CT/ 125 §§§	2500(t)	50(t)	7.1:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-78J	100MW	1 or 2 Transistor to Balanced Line	2,000 CT	600 CT/150 §§§	112	48.5	1.82:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-57J	50MW	Line or Transistor to Line	600/250/ 50	600/250/ 50	40	44	1:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-67J	50MW	Balanced Line to Balanced Line	600 CT/150 §§§	600 CT/150 §§§	43.8	44.1	1:1	30–15,000	500	J	Leads	1¾	1⅜	⅜	.35
A-75J▲	–	Audio Choke	16 HY	–	470	–	–	–	1000	J	Leads	1¾	1⅜	⅜	.35
A-77J	–	Audio Choke	250 HY/62.5 HY 5 MA DC/10 MA D.C.	–	7500	–	–	–	500	J	Leads	1¾	1⅜	⅜	.35

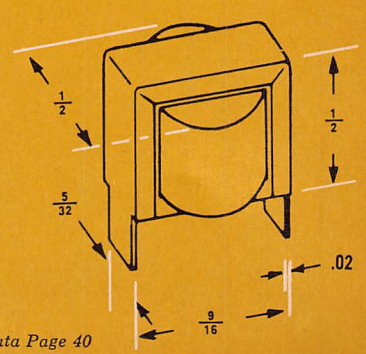
New Item. **CT** For Center Tap. ‡ Static shield. (t) Tentative data. ▲ Discontinued item available until stock depleted. §§§ Split winding.



J Case



Small X Case



XT Case

Additional dimension data Page 40

Developed initially for transistor circuitry, Triad miniatures can be effectively applied to tube circuitry. Skill in the engineering design of these units provides for reversing the primary and secondary windings with practically no loss in coupling characteristics. Power wattage at lowest operating frequency is given for these units . . . this wattage can be effectively increased up to five times at the middle of the frequency response curve. One of the many outstanding Triad miniature transistor types available from your stocking distributor's shelf, none in its class excels its performance.

MINIATURE

TRANSISTOR

AUDIO TRANSISTOR

Type No.	Power Output Watts	Application	Matching Impedance		DC Resistance		Overall Turns Ratio	RMS Test Volts	Case Type	Connections	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
			Primary	Secondary	Primary	Secondary					Size	Stack	H	W	D	MW	MD	
TY-23X	.1	Driver-Single to Sgl or P.P.	50000 .5MA D.C.	500 CT	6090	47.5	10:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.045
TY-24X	.2	Driver-Single to Sgl or P.P.	50000 .5MA D.C.	3000 CT	3720	250	4.08:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-25X	.2	Driver-Single to Sgl or P.P.	100000 .5MA D.C.	200 CT	9900	19.5	22.4:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-26X	.2	Driver-Single to Sgl or P.P.	100000 .5MA D.C.	3000 CT	9880	318	5.78:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-27XT	.01	Output-Single or P.P. to Line	500 CT 2MA D.C.	500 CT	37.5	51.5	1:1	500	XT	Leads	12–13	1/8	1/2	9/16	1/2	9/16		.025
TY-28XT	.01	Output-Single or P.P. to Line	500 CT 2MA D.C.	200 CT	38.2	25	1.58:1	500	XT	Leads	12–13	1/8	1/2	9/16	1/2	9/16		.025
TY-32X	.2	Interstage-Sgl or P.P. to P.P.	200 CT 2MA D.C.	2000 CT	29	233	3.18:1	1000	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-33X	.2	Output-Single or P.P. to V.C.	400 CT 5MA D.C.	16/8/4	30	3	5:1	1000	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-34X	.2	Interstage-Sgl or P.P. to Sgl or P.P.	400 CT 5MA D.C.	2000 CT	41	128	2.25:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-35X	.1	Interstage-Sgl or P.P. to Sgl or P.P.	500 CT 2MA D.C.	150 CT	57	32	1.82:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04
TY-36X	.2	Interstage-Sgl to Sgl or P.P.	2000 2MA D.C.	1500 CT	165	140	1.15:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-37X	.2	Interstage-Sgl or P.P. to Sgl or P.P.	2000 CT 4MA D.C.	8000 CT	200	550	1:2	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-38	.2	Interstage-Sgl or P.P. to Sgl or P.P.	3000 CT 4MA D.C.	1000 CT	263	105	1.74:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-39X	.2	Output-P.P. to V.C.	4000 CT	16/8/4	333	1.8	15.7:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-40X	.1	Interstage-Sgl to Sgl or P.P.	5000 1MA D.C.	200 CT	440	27	5:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04
TY-41X	.1	Interstage-Sgl to Sgl	16000 1MA D.C.	4000	1373	330	2:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04
TY-42X	.1	Output-Sgl to V.C.	20000 .5MA D.C.	8/4	1440	1.07	50:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04
TY-43X	.1	Interstage-Sgl to Sgl or P.P.	20000 .5MA D.C.	800 CT	1435	82	5:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04
TY-44X	.2	Output-Sgl to V.C.	1000 10MA D.C.	16/8/4	181	3.8	7.9:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-45X	.2	Output-Sgl or P.P. to V.C.	500 CT 5MA D.C.	16/8/4	56	3.8	5.2:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-46X	1	Interstage-Sgl to P.P. or Sgl	100 100MA D.C.	1000 CT	5.5	60	1:3.15	1500	X	Leads	50	5/8	1 3/8	2 3/8	1 1/2	2		.45
TY-47X	.2	Output-Sgl or P.P. to V.C.	2000 CT 10MA D.C.	16/8/4	260	3.95	11.2:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-49X	1	Interstage-Sgl or P.P. to Sgl or P.P.	500 CT 12MA D.C.	5000 CT	40	245	1:3.15	500	X	Leads	50	1/2	1 3/8	2 3/8	1 3/8	2		.4
TY-50X	.04	Input-Sgl to SGL or P.P.	125000 0 D.C.	2000 CT	5500	120	8:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-51X	.1	Driver-Sgl or P.P. to Sgl or P.P.	2000 CT 10MA D.C.	200 CT	748	120	3.16:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04
TY-52X	.2	Driver-Sgl or P.P. to Sgl or P.P.	20000 CT 1MA D.C.	2000 CT	2140	327	3.17:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-54X	.2	Interstage-Sgl to Sgl or P.P.	15000 1.5MA D.C.	200 CT	2130	30	8.65:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-55X	.2	Interstage-Sgl or P.P. to Sgl or P.P.	2000 CT 2MA D.C.	500 CT	140	65	2:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-56X	.2	Interstage-Sgl to Sgl or P.P.	10000 1MA D.C.	2000 CT	1034	334	2.24:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-57X	.2	Output-Sgl or P.P. to V.C.	250 CT 10MA D.C.	16/8/4	34.6	3.7	3.94:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-58X	.2	Output-Sgl or P.P. to V.C.	125 CT 15MA D.C.	8/4	16	2.2	3.97:1	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-59X	.2	Interstage-Sgl or P.P. to Sgl or P.P.	5000 CT 1MA D.C.	50,000 CT	378	6410	1:3.16	500	X	Leads	24–25	1/4	13/16	1 5/8	1	1 3/8		.08
TY-60X	.1	Input-High Imp. to Transistor	200000 0 D.C.	1000	840	195	14.2:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04
TY-62X	.1	Output-Sgl to Voice Coil	10000 2MA D.C.	4	709	1.5	50:1	500	X	Leads	18	3/16	5/8	1 3/32	1 1/16	1 1/16		.04

CT For Center Tap.

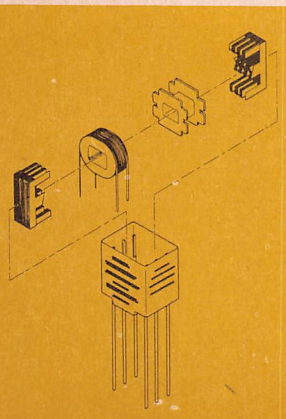
RED SPEC TRANSISTOR

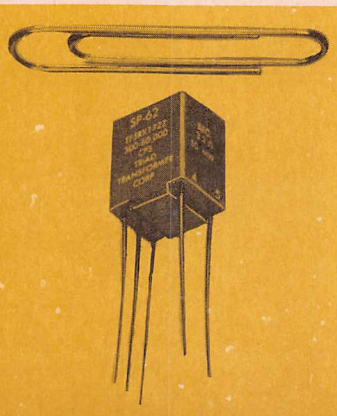
Triad Red Spec Transformers have achieved the ultimate in miniaturization . . . only Triad offers you the construction and electrical characteristics to excel in every aspect of transistor and printed circuitry. The Red Specs outperform, outlive and outsell all others. Where excellence is a prerequisite of the transformer for your miniature requirements for input, output, driver, interstage or choke types, specify only Triad Red Specs. Engineered to MIL–T–27A specifications, Red Specs have repeatedly given astounding results . . . their multiplicity of exceptional features tells only part of their story . . . Your distributor has complete engineering bulletins . . . call him for more data.

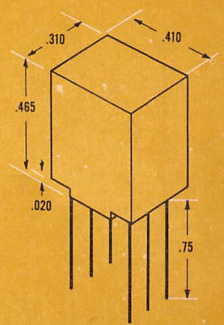
RED SPEC TRANSISTOR

Type No.	Mil Type Number	Power Level In MW	Application	Matching Impedance		Max MA DC Unbalanced In Primary	DC Resistance		Overall Turns Ratio	RMS Test Voltage
				Primary	Secondary		Primary	Secondary		
SP-4	TF5RX16ZZ	10	Input	200,000 CT	1,000 CT	0	5300	100	14.1:1	500
SP-5	TF5RX16ZZ	25	Input	50,000 CT	1,000 CT	0	3800	75	7.1:1	500
SP-7	TF5RX16ZZ	10	Input	200,000	1,000	0	5300	100	14.1:1	500
SP-11	TF5RX13ZZ	40	Interstage	25,000	1,000	.5	1700	115	5:1	500
SP-13	TF5RX13ZZ	40	Interstage	25,000 CT	1,000 CT	.5	1700	115	5:1	500
SP-15	TF5RX13ZZ	50	Interstage	10,000 CT	1,500 CT	1	1050	300	2.57:1	500
SP-20	TF5RX13ZZ	50	Driver	10,000 CT	1,200 CT	1	1050	200	2.88:1	500
SP-21	TF5RX13ZZ	50	Driver	10,000 CT	2,000 CT	1	1050	330	2.24:1	500
SP-29	TF5RX13ZZ	50	Driver	10,000 CT	500 CT	1	1050	80	4.47:1	500
SP-32	TF5RX17ZZ	50	Output	500	50	3	60	8	3.16:1	500
SP-33	TF5RX17ZZ	50	Output	1,000	50	3	145	8	4.4:1	500
SP-34	TF5RX17ZZ	50	Output	600	3.2	3	70	.76	13.6:1	500
SP-35	TF5RX13ZZ	50	Output	1,200	3.2	2	131	.76	19.3:1	500
SP-36	TF5RX13ZZ	50	Output	10,000	3.2	1	1160	.81	5.58:1	500
SP-42	TF5RX17ZZ	50	Output	150 CT	12	10	18	3.5	3.54:1	500
SP-43	TF5RX17ZZ	50	Output	300 CT	12	7	42	3.4	5:1	500
SP-44	TF5RX17ZZ	50	Output	600 CT	12	4.5	77	3	7.06:1	500
SP-46	TF5RX17ZZ	50	Output	1,000 CT	12	3.5	120	3	9.14:1	500
SP-47	TF5RX13ZZ	50	Output	1,500 CT	12	3	179	7.9	11.2:1	500
SP-48	TF5RX13ZZ	50	Output	7,500 CT	12	1	796	2.9	25:1	500
SP-49	TF5RX17ZZ	50	Output	300 CT	600	7	41	98	1:1.42	500
SP-50	TF5RX17ZZ	50	Output	500 CT	600	3	67	98	1:1.1	500
SP-51	TF5RX17ZZ	50	Output	900 CT	600	4	104	96	1.22:1	500
SP-52	TF5RX13ZZ	50	Output	1,500 CT	600	3	168	92	1.58:1	500
SP-59	TF5RX17ZZ	50	Output	120 CT	3.2	10	17	.75	6.15:1	500
SP-60	TF5RX17ZZ	50	Output	320 CT	3.2	6	44	.77	10:1	500
SP-61	TF5RX17ZZ	50	Output	600 CT	3.2	4.5	70	.85	13.6:1	500
SP-62	TF5RX17ZZ	50	Output	800 CT	3.2	4	107	.86	15.8:1	500
SP-63	TF5RX13ZZ	50	Output	1,200 CT	3.2	3	131	.87	19.3:1	500
SP-64	TF5RX13ZZ	50	Output	1,600 CT	3.2	2.5	186	.8	22.3:1	500
SP-65	TF5RX13ZZ	50	Output	8,000 CT	3.2	1	790	.76	50:1	500
SP-66	TF5RX13ZZ	50	Output-Isolation	10,000 CT	10,000 CT	1	1200	1280	1:1	500
☞ SP-67	TF5RX17ZZ	50	Output-Isolation	600 CT	600 CT	3	72	92	1:1	500
SP-106	TF5RX20ZZ	—	Audio Choke	6HY	—	2	1700	—	—	500
SP-107	TF5RX20ZZ	—	Audio Choke	1.25HY	—	2	180	—	—	500
SP-108	TF5RX20ZZ	—	Audio Choke	3.5HY	—	2	1040	—	—	500
☞ SP-117	TF5RX20ZZ	—	Audio Choke	.9HY	—	2	110	—	—	500
SP-118	TF5RX20ZZ	—	Audio Choke	.3HY	—	4	44.5	—	—	500
☞ SP-128	TF5RX20ZZ	—	Audio Choke	.1HY	—	5	15	—	—	500

☞ New Item. **CT** For Center Tap.





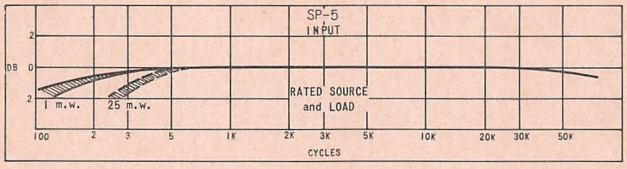


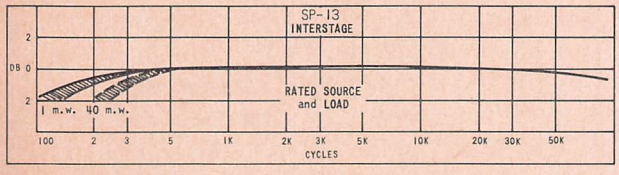
SP Case

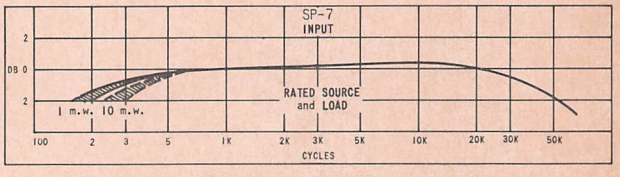
Triad Red Specs have . . . solid epoxy molded case . . . legible, permanent, complete circuit data on every unit . . . base mounting pad for ready inspection of all solder joints . . . bare, high strength nickel alloy leads . . . no stripping or tinning required . . . operating DC voltage is 105 . . . exceptional operation from 100 to 100,000 cycles . . . base dimensions of only .310 x .410 inches . . . total height of only .465 inch . . . weigh just one tenth ounce . . . leads of high strength .020 diameter nickel alloy . . . lowest possible fatigue factor . . . dry hydrogen annealed Trialloy deep drawn .020 inch case available for as much as 20–45 db magnetic shielding. See SP–310 case with dimensions below. For excellence, specify Triad Red Specs.

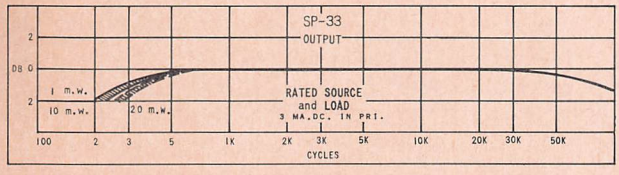
RED SPEC TRANSISTOR

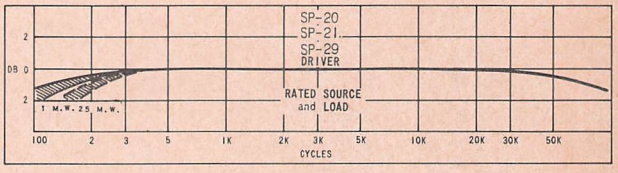
PERFORMANCE CHARACTERISTIC CHARTS

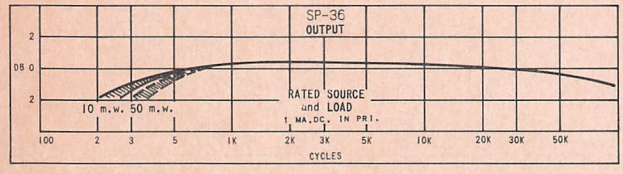


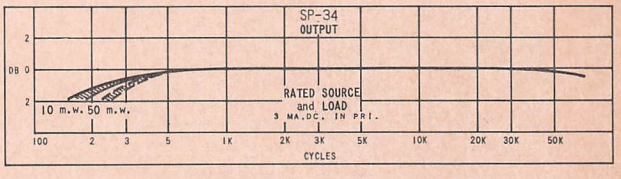


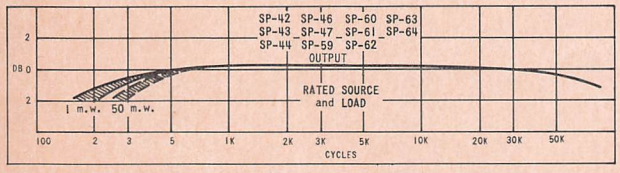


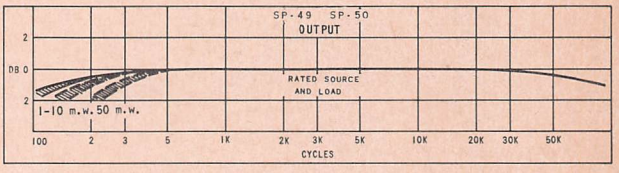


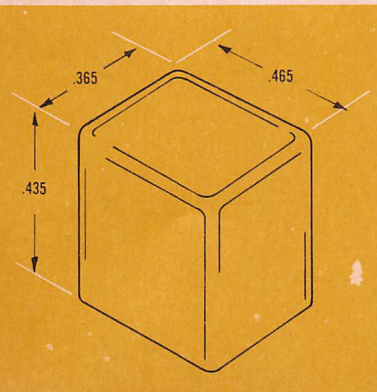












SP–310 Case

AUDIO

For peak performance, Triad output and driver transistor types are advanced in design, liberal in features. These units can be effectively employed in interstage, driver or output applications, in addition to transistor circuitry. Vacuum varnished, their construction characteristics are unparalleled.

Eight and nine prong plugs on Triad Input transformers make them ideal for all commercial amplifier applications. Good magnetic shielding makes them effective for coupling of magnetic heads and low-impedance microphones to amplifier input circuits. If they're Triad, dependability is an integral part of their construction.

PLUG IN INPUT

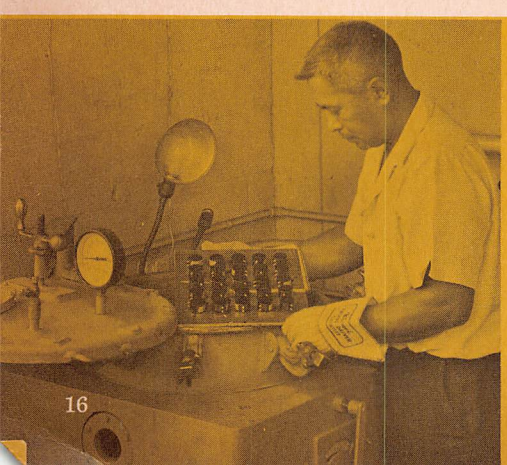
Type No.	Application	Matching Impedance		D.C. Resistance		Overall Turns Ratio	Freq. Resp. ± 3 DB	RMS Test Voltage	Mag. Shielding	Case Type	Case Dimensions		Max. Unit Wt. Lbs.
		Primary	Secondary	Primary	Secondary						H	D	
A-200P	Line or Mike to Grid	200 CT/50 CT§§§	36,000	40	2300	1:13.6	30–15,000	500	70 DB	P 9 Pin	2½	1¼	.25
A-202P	Line or Mike to Grid	200 CT/50 CT§§§	36,000	45	2600	1:13.6	30–15,000	500	90 DB	P 9 Pin	2¾	1¾	.5
HS-273P	Line or Mike to Grid	200 CT/50 CT§§§	80,000	14	3460	1:20	30–20,000	500	70 DB	Octal 8 Pin	1¾	1⅜	.35
A-210P	Isolation for Stereo Amplifiers—To eliminate Ground Loop Disturbance	27,000	27,000	4025	5660	1:1	20–20,000	500	45 DB	A-210P	2 3/16	1 1/16	.25

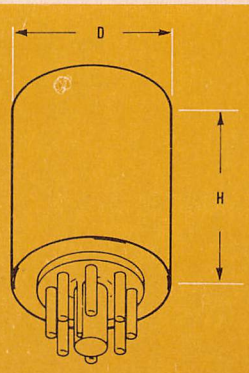
Note: All items have electrostatic shield between primary and secondary plus magnetic shielding.

OUTPUT AND DRIVER TRANSISTOR / medium and high level

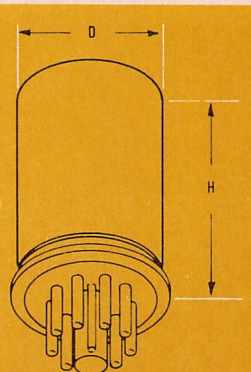
Type No.	Power Output Watts	Application	Matching Impedance		D.C. Resistance		Overall Turns Ratio	Freq. Response ± 3 DB	RMS Test Volts	Case Type	Connections	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
			Primary	Secondary	Primary	Secondary						Size	Stack	H	W	D	MW	MD	
TY-29X	8	Output-Push-Pull to V.C.	24 CT 500MA D.C. Bal.	8/4	2.57	2.2	1.73:1	30–20,000	1000	X	Leads	75	¾	1 15/16	3 5/16	1¾	2 13/16		1.1
TY-31X	2	Output-Sgl or P.P. to V.C.	200 CT 50MA D.C. Bal.	8/4	27	1.4	5:1	50–10,000	500	X	Leads	38	⅜	1 3/16	2 1/16	1¼	1¾		.21
TY-48X	.5	Output-Class B P.P. to V.C.	100 CT 40 MA D.C.	16/8/4	14	4	2.5:1	50–20,000	500	X	Leads	24–25	¼	13/16	1⅝	1	1⅜		.08
TY-30X	2	Output-Sgl or P.P. to V.C.	100 CT 100MA D.C. Bal.	8/4	14.4	1.1	3.54:1	50–10,000	500	X	Leads	38	⅜	1 3/16	2 1/16	1¼	1¾		.2
TY-53X	6	Driver-Sgl or P.P. to Sgl or P.P.	200 CT 10MA D.C.	400 CT	26.5	58.6	1:1.4	20–20,000	1000	X	Leads	75	¾	1 15/16	3 5/16	1¾	2 13/16		1
TY-61X	4	Driver-Sgl to Sgl or P.P.	100 100MA D.C.	100 CT	9.1	10	1:1	50–10,000	1000	X	Leads	63	⅝	1⅝	2 13/16	1½	2⅜		.6
TY-63X	8	Output-P.P. 2N68's to V.C.	48 CT 275MA D.C. Bal.	16/8	4.5	1.4	1.72:1	50–10,000	1000	X	Leads	75	¾	1 15/16	3 5/16	1¾	2 13/16		1
TY-64X	10	Output-P.P. to Voice Coil	32 CT 575MA D.C. Bal.	16/8/4	2.24	1.3	1.44:1	25–30,000	1000	X	Leads	75	¾	1 15/16	3 5/16	1¾	2 13/16		1
TY-65Z	10	Modulation-P.P. Class B to Modulation	32 CT 575MA D.C. Bal.	6K/4K/3K	1.9	275	1:13.7	50–20,000	1500	Z	Leads	75	1	2 5/16	2⅞	2	2⅜		1.3
TY-66A	40	Modulation-Class B-P.P. to Modul.	6 CT 5A.D.C.	6K/4K/3K	.158	80	1:31.6	300–3000	Pri 1500 Sec 3000	A	Leads–2	125	1¼	3⅞	3 9/32	3⅛	2½	2¼	5.2
TY-67A	40	Output-Class B P.P. to Voice Coil	6 CT 5A.D.C.	16/8/4	.174	.24	1:1.63	80–15,000	1500	A	Leads–2	125	1¼	3⅞	3 9/32	3⅛	2½	2¼	5

CT For Center Tap. §§§ Split winding.

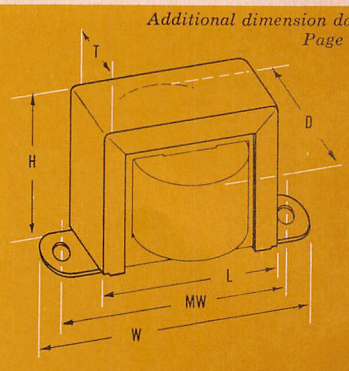




P Case 8 Pin



P Case 9 Pin



X Case

Additional dimension data Page 40

TOROIDS

Triad Toroidal Inductors have the highest Q and highest measure of stability with level and temperature variations. Employing powdered nickel alloy dust cores . . . wound with low, distributed capacitance and resistance . . . each coil provides a minimum inductance tolerance of plus or minus 2 percent. Triad toroids are available with standard leads in strong plastic coating or epoxy molded MIL–T–27A encapsulation. Molded toroids with gold plated fixed terminals are specified by an A, following the type number (EM–001A). No finer toroid types are available from stock than those on your stocking Triad Distributor's shelves. For applications requiring even closer tolerances, call your Triad Representative.

EM Series

Type No.	Ind.	Res. ohms approx.	DC-ma for 5% ind. drop
EM–001	1 mh	2.8	150
EM–002	2 mh	4.1	108
EM–003	3 mh	5.1	87
EM–004	4 mh	6.0	76
EM–005	5 mh	6.8	68
EM–007	7 mh	8.2	57
EM–010	10 mh	10	48
EM–015	15 mh	12.5	39
EM–020	20 mh	14.5	34
EM–025	25 mh	16.5	30
EM–030	30 mh	18	27.6
EM–040	40 mh	27	24
EM–050	50 mh	30	22
EM–060	60 mh	40	19.5
EM–070	70 mh	43	18
EM–100	100 mh	66	15
EM–150	150 mh	100	12.5
EM–200	200 mh	115	11
EM–250	250 mh	167	9.6
EM–300	300 mh	180	8.8
EM–400	400 mh	265	7.6
EM–500	500 mh	295	7
EM–700	700 mh	440	5.8
EM–1000	1000 mh	650	4.8

ET Series

Type No.	Ind.	Res. ohms approx.	DC-ma for 5% ind. drop
ET–001	1 mh	.57	680
ET–002	2 mh	.82	480
ET–003	3 mh	.98	396
ET–004	4 mh	1.10	342
ET–005	5 mh	1.35	306
ET–007	7 mh	1.50	260
ET–010	10 mh	2	217
ET–015	15 mh	3	177
ET–020	20 mh	4.3	153
ET–025	25 mh	4.8	137
ET–030	30 mh	6.9	125
ET–040	40 mh	7.2	108
ET–050	50 mh	8	97
ET–060	60 mh	15.5	88
ET–070	70 mh	16.8	82
ET–100	100 mh	26.0	68
ET–150	150 mh	38.5	56
ET–200	200 mh	44.5	48
ET–250	250 mh	64	43
ET–300	300 mh	72	40
ET–400	400 mh	103	34
ET–500	500 mh	118	31
ET–700	700 mh	173	26
ET–1000	1000 mh	245	22

EA Series

Type No.	Ind.	Res. ohms approx.	DC-ma for 5% ind. drop
EA–001	1 mh	.40	270
EA–002	2 mh	.58	192
EA–004	4 mh	.85	135
EA–003	3 mh	.73	157
EA–005	5 mh	1.20	121
EA–007	7 mh	1.42	102
EA–010	10 mh	2.20	86
EA–015	15 mh	3.40	70
EA–020	20 mh	5.05	60
EA–025	25 mh	5.80	54
EA–030	30 mh	7.90	50
EA–040	40 mh	11.40	43
EA–050	50 mh	12.80	38
EA–070	70 mh	19.00	32
EA–100	100 mh	30.00	27
EA–150	150 mh	46.00	22
EA–200	200 mh	52.00	19
EA–250	250 mh	73.00	17
EA–300	300 mh	80.00	16
EA–400	400 mh	115.00	14
EA–500	500 mh	126.00	12
EA–600	600 mh	178.00	11
EA–700	700 mh	193.00	10
EA–1000	1000 mh	297.00	8.6

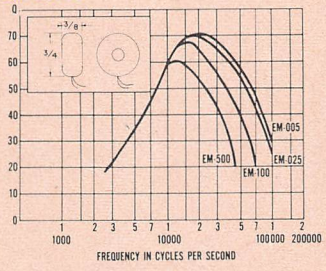
EC Series

Type No.	Ind.	Res. ohms approx.	DC-ma for 5% ind. drop
EC–001	1 mh	.40	520
EC–002	2 mh	.56	368
EC–003	3 mh	.70	300
EC–004	4 mh	.82	260
EC–005	5 mh	.92	233
EC–007	7 mh	1.05	195
EC–010	10 mh	1.30	165
EC–015	15 mh	1.60	134
EC–020	20 mh	1.85	116
EC–030	30 mh	2.85	95
EC–040	40 mh	4.20	82
EC–050	50 mh	4.60	74
EC–070	70 mh	7.00	62
EC–100	100 mh	8.00	52
EC–200	200 mh	25.00	37
EC–250	250 mh	28.00	33
EC–300	300 mh	38.20	30
EC–400	400 mh	44.00	26
EC–500	500 mh	63.50	23
EC–600	600 mh	71.00	21
EC–700	700 mh	80.00	19.5
EC–1000	1000 mh	113.00	16.5
EC–1500	1500 mh	175.00	13.5
EC–2000	2000 mh	243.00	11.6
EC–3000	3000 mh	370.00	9.5
EC–4000	4000 mh	435.00	8.2
EC–5000	5000 mh	645.00	7.4
EC–7000	7000 mh	780.00	6.2
EC–10000	10000 mh	1190.00	5.2

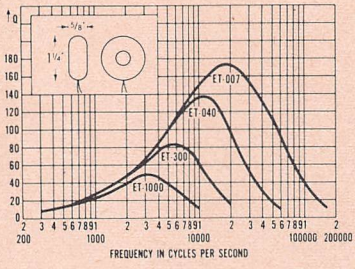
EK Series

Type No.	Ind.	Res. ohms approx.	DC-ma for 5% ind. drop
EK–010	10 mh	.92	262
EK–020	20 mh	1.30	185
EK–030	30 mh	1.65	150
EK–040	40 mh	1.90	130
EK–050	50 mh	3.50	116
EK–060	60 mh	4.00	106
EK–080	80 mh	4.60	92
EK–100	100 mh	5.20	82
EK–120	120 mh	5.50	75
EK–150	150 mh	6.20	67
EK–200	200 mh	7.50	58
EK–250	250 mh	10.30	52
EK–300	300 mh	12.00	47
EK–400	400 mh	16.50	41
EK–500	500 mh	23.60	37
EK–700	700 mh	30.00	31
EK–1000	1000 mh	45.00	26
EK–2000	2000 mh	100.00	18.4
EK–3000	3000 mh	151	15
EK–4000	4000 mh	175	13
EK–5000	5000 mh	250	11.6
EK–7000	7000 mh	380	9.8
EK–10000	10000 mh	500	8.2
EK–20000	20000 mh	1000	5.8
EK–30000	30000 mh	1500	4.7
EK–40000	40000 mh	1850	4.1

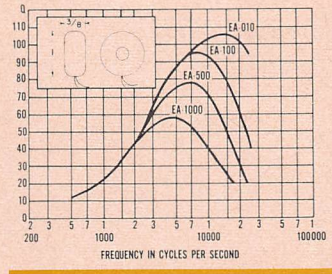
EM Series



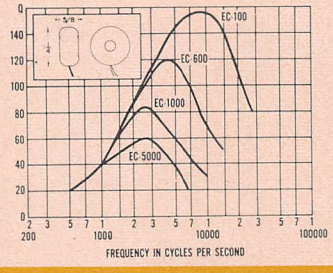
ET Series



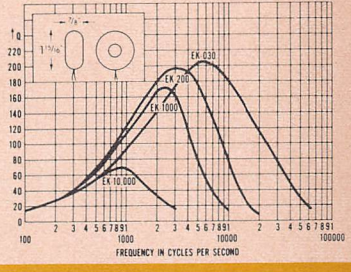
EA Series



EC Series



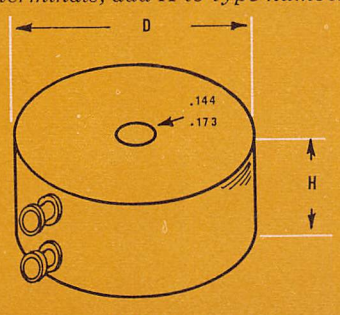
EK Series



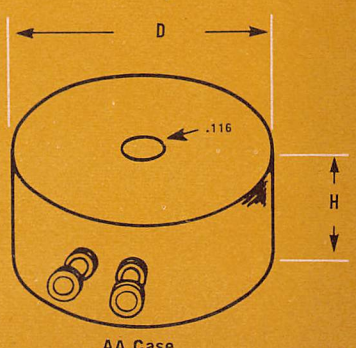
MOLDED SIZES

	EA Series	EC-ET Series	EK Series	EM Series
DIA.	1 1/16	1 5/16	2	3/4
HT	1/2	23/32	1	3/8

Note: For molded toroids with gold plated fixed terminals, add A to type number.



A Case



AA Case
EM Series Only

TRANSISTOR TOROIDAL POWER SUPPLY

Triad has pioneered and led the field in developing the finest and one of the first transformers for DC to DC, and DC to AC power supplies in transistor and semiconductor applications. Excelled by none, these transformers are available in either commercial open frame, double varnish types . . . or epoxy molded toroidal types which exceed MIL–T–27A, Grade 5, Class R Specifications. Complete engineering information on the outstanding capabilities of these units is available in the Triad Transistor Brochure.

EPOXY MOLDED TOROID TYPE / dc to dc

Type No.	D.C. Source Volts	D.C. Volts Out of Rectifier	D.C. Matching Maximum	Case Type	Dimensions—Inches T	D	H	M	Weight Lbs.
TY-78	12.6	250/125	100	EE	½	1¾	1 1/16	1 1/64	.35
TY-79	12.6	300/150	200	EE	¾	1¾	1	1 1/64	.35
TY-80	12.6	325/162.5	150	EE	¾	1¾	1	1 1/64	.35
TY-81	12.6	375/187.5	200	EE	¾	2	1	1 1/64	.50
TY-82	12.6	450/225	150	EE	¾	2	1	1 1/64	.50
TY-83	12.6	500/250	250	EE	1 1/8	2¾	1¾	3/16	.85
TY-84	12.6	600/300	200	EE	1 1/8	2¾	1⅜	3/16	1.00
TY-88	28	250/125	80	EE	13/32	1 5/16	9/16	7/64	.25
TY-89	28	300/150	100	EE	½	1¾	1 1/16	1 1/64	.35
TY-90	28	325/162.5	200	EE	¾	1¾	1	1 1/64	.35
TY-91	28	375/187.5	200	EE	¾	2	1	1 1/64	.50
TY-92	28	450/225	200	EE	¾	2	1	1 1/64	.50
TY-93	28	500/250	250	EE	1 1/8	2¾	1¾	3/16	.85
TY-94	28	600/300	200	EE	1 1/8	2¾	1⅜	3/16	1.00
TY-99	6	300/150	100	EE	¾	1¾	1	1 1/64	.35
TY-100	6	325/162.5	150	EE	¾	2	1	1 1/64	.50
TY-101	6	375/187.5	200	EE	1 1/8	2¾	1⅜	3/16	1.00
TY-102	6	450/225	150	EE	1 1/8	2¾	1⅜	3/16	1.00

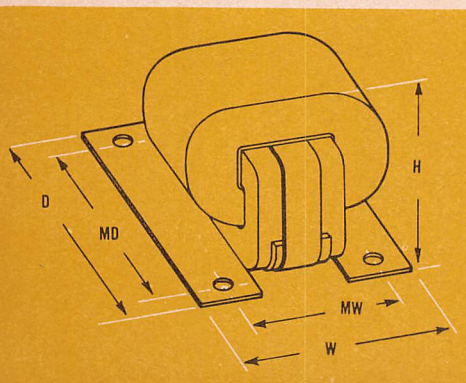
TRANSISTOR / dc to ac

Type No.	D.C. Primary	Secondary	Case Type	Dimensions—Inches H	W	D	Matching Dimensions MW	MD	Weight Lbs.
TY-468	28	110-115-125v 400cps 60 watts	L	1 7/8	2 1/4	2	1 7/8	1 3/8	½
TY-462	12	110-115-125v 400cps 60 watts	L	1 7/8	2 1/4	2	1 7/8	1 3/8	½
TY-75A	12	110-115-125v 60cps 115 watts	A	3 7/8	3 3/32	3 1/4	2½	2¾	5
TY-76A	12	110-115-125v 60cps 60 watts	A	3 3/32	2 21/32	2 5/8	2	1 7/8	3

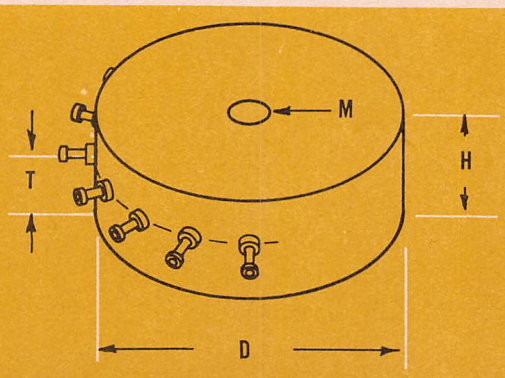
OPEN TYPE / 12 volt dc to dc

Type No.	D.C. Volts Out of Rectifier	D.C. Matching Maximum	Dimensions—Inches H	W	D	MW	Weight Lbs.
TY-68S▲	250/125	65	1¾	1¾	1 11/32	1½	.2
TY-69S▲	300/150	100	1 7/8	2 3/8	1 7/8	1½	.5
TY-70S▲	325/162.5	150	2	2 3/8	2 1/16	1½	.6
TY-71S▲	375/187.5	200	2	2 3/8	2 1/16	1½	.65
TY-74S▲	600/300	200	2	4 1/8	3	3¾	1.07

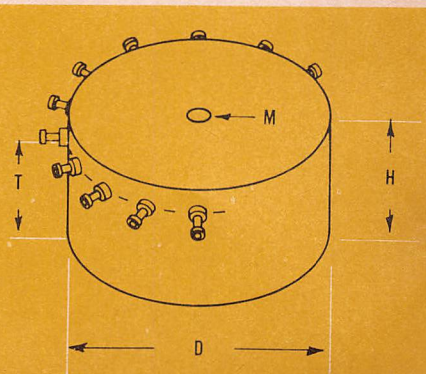
▲ Discontinued item available until stock depleted. New Item.



TY–L Type



E Case



EE Case

Triad Geoformers continue to lead the field in their rugged construction characteristics and their outstanding performance record. Engineered to withstand the rigid environmental requirements of geophysical recording equipment and other temperamental instrumentation, they have been designed to give dependability and longevity difficult to duplicate. Miniaturization and minimum weight are featured . . . constructed to comply with MIL–T–27A Specifications . . . Mumetal shielded . . . their extreme low frequency response meets the toughest tests. A certificate of compliance is available for military applications inasmuch as government certified standards of inductances are not available at the low 10–100 millivolt level at which these transformers are matched. Triad craftsmanship is an integral part of every Triad Geoformer . . . for applications demanding quality, dependability, superior performance, long life, shock resistance . . . specify only Triad.

GEOFORMERS
INSTRUMENTATION
LOW FREQUENCY

● MAGNETIC SHIELDING

GP cases are drawn from Mumetal, are dry hydrogen annealed after fabrication to provide the greatest possible low density permeability. By employing Mumetal cases with heavy copper interleaving, maximum attenuation as high as 100 db is achieved . . . humbuck coils add up to 45 db in most effective plane.

P–1	one Mumetal case gives 45 db;
P–1H	P–1 shielding & humbuck coils/90 db;
P–3	two Mumetal cases & copper interleaving/70 db;
P–3H	P–3 shielding & humbucking coils/115 db;
P–5	three Mumetal shields & interleaving/95 db;
P–5H	P–5 shielding & humbucking coils/providing 135 db in most effective plane.

● IMPREGNATION

Hermetically sealed scientifically, Triad Geoformers are durable . . . coil and core assemblies are prebaked at 250°F after inductance adjustment . . . immediate vacuum impregnation with finest compounds available . . . vacuum wax filled while hot, after encasing . . . special compounds for special applications assure special advantages with Triad.

● INDUCTANCE

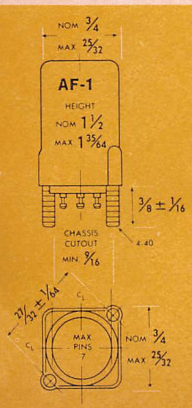
Unless specifically stated to the contrary, all inductances are within plus or minus 5 percent of standard. Triad's superior techniques frequently produce lots which range to plus or minus 2 percent. Tested on Triad's special bridge, low potential voltage is maintained across the coil . . . voltage levels and frequencies are as indicated. No test is conclusively made until coils have normalized at 26°C. All Triad coils are inspected prior to impregnation . . . prior to assembly . . . upon completion . . . doubt is eliminated when you specify Triad.

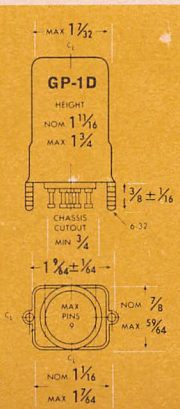
● CHOPPER TRANSFORMERS

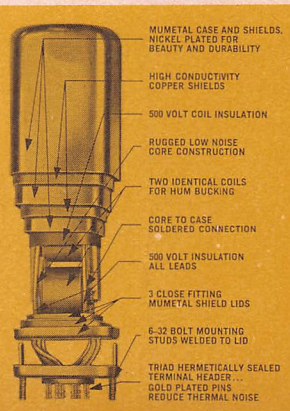
In addition to the G–20 Series of Chopper Transformers, Triad standard input and interstage transformers have been widely and effectively used for pulse applications like those encountered in chopper circuits . . . with characteristically successful results. The frequency responses indicated for geoformers are measured using sine wave signals. For reasonable accuracy, square wave response can be determined from sine wave response by this method . . . determine a sine wave response of fundamental over 16 to fundamental times 10, for fundamental square wave with 10 percent rise time, 10 percent droop (a square wave of 1000 cps with rise time and droop of 10 percent requires a transformer which is plus or minus 1 db from 63 cps to 10 kc).

● HIGH FIDELITY INPUT TRANSFORMERS

Triad Geoformers, though unequalled for their low frequency performance record, have been successfully used in high fidelity preamplifier circuitry . . . the exceptional broad band characteristics of many of Triad's input and interstage units make them ideal for these applications. For your special requirements, Triad's skilled engineering staff welcomes the opportunity to help you . . . specify Triad and be sure.






MUMETAL CASE AND SHIELDS, NICKEL PLATED FOR BEAUTY AND DURABILITY
HIGH CONDUCTIVITY COPPER SHIELDS
500 VOLT COIL INSULATION
RUGGED LOW NOISE CORE CONSTRUCTION
TWO IDENTICAL COILS FOR HUM BUCKING
CORE TO CASE SOLDERED CONNECTION
500 VOLT INSULATION ALL LEADS
3 CLOSE FITTING MUMETAL SHIELD LIDS
6-32 BOLT MOUNTING STUDS WELDED TO LID
TRIAD HERMETICALLY SEALED TERMINAL HEADER . . . GOLD PLATED PINS REDUCE THERMAL NOISE

GEOFORMERS

INSTRUMENTATION

Triad Chopper Input Transformers provide exceedingly close balance between the two halves of the primary winding . . . minimum noise in microvolt ranges of input signals is assured with Triad's special core treatment techniques. For demanding transistor and tube applications, Triad's special design capabilities have an outstanding record. For special applications, consult Triad.

CHOPPER INPUT TRANSFORMERS

Type No.	Turns Ratio	Minimum Primary Inductance @ 1V–60	Maximum Primary Volts @ 60	Primary Matching Impedance In Ohms	Secondary Matching Impedance In Ohms	D.C. Resistance Primary In Ohms	D.C. Resistance Secondary In Ohms	Stray Fields Shield	Case and Mounting	Weight
G-20‡	1:8	120 h.	25	10,000 CT or 2500	640,000 CT	370	21,000	P5-H P1-H	GP-4T GP-2L	11½ oz. 5¼ oz.
G-20H‡										
G-21‡	4:1	1200 h.	84	20,000 CT	12,500 CT	4000	1300	P1-H P5-H	GP-2L GP-4T	5¼ oz. 11½ oz.
G-21TS‡										
G-22H‡	1:4	1000 h.	90	50,000 CT	800,000 CT	2200	19,000	P1-H P5-H	GP-3R GP-5W	7¾ oz. 1 lb.
G-22‡										
G-23‡	6.32:1	1000 h.	75	40,000 CT	1000 CT	4400	160	P1-H P5-H	GP-2L GP-4T	5¼ oz. 11½ oz.
G-23TS‡										
G-24‡	1:1	400 h. Low capacity coupling less than .02 μμF between windings.	19.5	40,000 CT	40,000 CT	1625	1625	P5	GP-5S	1 lb.
G-25‡	2:1	800 h.	70	40,000 CT or 10,000 CT	10,000 CT	3200	2200	P1-H P5-H	GP-2L GP-4T	5¼ oz. 11½ oz.
G-25TS‡										

INPUT GEOFORMERS

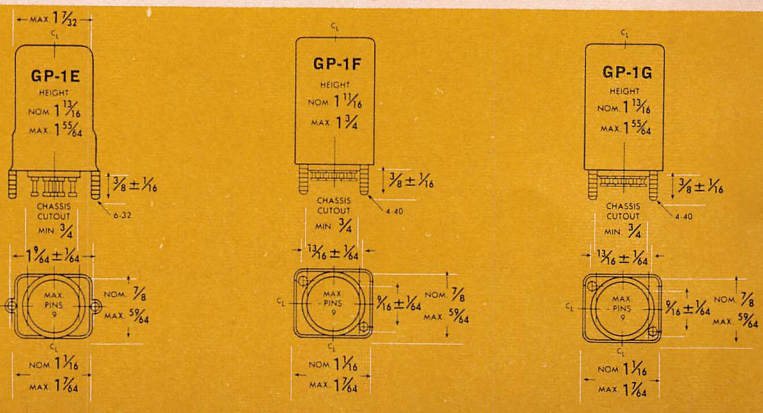
Type No.	Primary Inductance @ 10MV–60 CPS	Primary Matching Impedance In Ohms	Secondary Matching Impedance In Ohms	D.C. Resistance Primary In Ohms	D.C. Resistance Secondary In Ohms	Turns Ratio	Frequency Response In C.P.S. ± 1DB	Max. Level DBM	Stray Fields Shield	Case and Mounting	Weight
G-2‡	8.7 h.	500 §-333-233-200 § 125 §§-67½ §-50 §§-17 §§	157,000 § or 39,250 §§	50	10,400	1–17.7	9.5–5000	0	P5-H P3-H	GP-4T GP-3R	11½ oz. 8 oz.
G-2H3‡											
G-4‡	.9 h.	60 §-44-30 §-25 15 §§-7½ §§-5 §-1.25 §§	157,000 § or 39,250 §§	9	10,400	1–51	11–5000	0	P5-H P3-H	GP-4T GP-3R	11½ oz. 8 oz.
G-4H3‡											
G-5‡	55 h.	1000 §-666-466-400 § 250 §§-135 §-100 §§-34 §§	137,000 § or 34,250 §§	235	15,500	1–11.75	3–4000	–10	P1-H P5-H	GP-3P GP-5W	7¾ oz. 1 lb.
G-5TS‡											
G-7‡	11.5 h.	500 §-333-233-200 § 125 §§-67½ §-50 §§-17 §§	315,000 § or 78,750 §§	58	16,220	1–25	7–3000	–10	P1-H P5-H	GP-3P GP-5W	7¾ oz. 1 lb.
G-8‡											
G-9‡	8 h.	500 §-333-233-200 § 125 §§-67½ §-50 §§-17 §§	712,000 § or 178,000 §§	72	20,000	1–37.7	10–1700	0	P1-H P5-H	GP-3P GP-5W	7¾ oz. 1 lb.
G-10‡											
G-12‡	10 h.	500 §-125 §§	50,000**	165	20,000	1–10	10–3000	0	P1-H	GP-2L	5¼ oz.
G-14‡	6.8 h.	500 §-333-233-200 § 125 §§-67½ §-50 §§-17 §§	450,000**	54	12,500	1–30	14–2000	–10	P1-H P5-H	GP-2K GP-4T	5¼ oz. 11½ oz.
G-14TS‡											
G-17‡	4 h.	200 §-50 §§	442,000**	17	26,000	1–47	8.5–2500	–10	P3-H	GP-3R	8 oz.
G-101‡	8.3 h.	500 §-333-233-200 § 125 §§-67½ §-50 §§-17 §§	145,000**	120	10,000	1–17	11–3700	–10	P1-H P5-H	GP-1D GP-3R	3.2 oz. 10 oz.
G-101TS‡											
G-201‡	8.3 h.	500 §-125 §§	145,000**	120	10,000	1–17	11–3700	–10	P1-H	GP-1F	3.2 oz.
G-202‡	8.3 h.	500 §-125 §§	392,000**	94	13,000	1–28	11–1800	–10	P1-H	GP-1F	3.2 oz.
G-301‡	3 h.	500 §-125 §§	145,000**	106	6500	1–17	30–3200	–10	P1-H	AF-1	1.5 oz.
G-306‡	7 h.	500 §-125 §§	60,000**	190	6500	1–11	15–12,000	–10	P1-H	AF-1	1.5 oz.
G-313‡	10.5 h.	500 §-125 §§	36,000**	350	5600	1–8.5	10–18,000	–10	P1-H	AF-1	1.5 oz.
G-315‡	5.2 h.	500 §-125 §§	114,000**	235	6700	1–15.1	19–7000	–10	P1-H	AF-1	1.5 oz.
G-401‡	8 h.	500 §-125 §§	157,000**	100	9800	1–17.7	11–4000	–10	P1-H	GP-1F	3.2 oz.

LOW FREQUENCY TRANSISTOR TRANSFORMERS

Type No.	Min. Pri. Ind. @ 100MV—60 cy. With No Unbalanced D.C. Current	Impedance Ohms Pri.	Impedance Ohms Sec.	Turns Ratio	D.C. Resistance (Ohms) Pri.	D.C. Resistance (Ohms) Sec.	Frequency Response in Cycles Primary Signal of 1 Volt Unbalanced D.C. Secondary Current of 1 Ma. –3DB	1 Ma. –1DB	2 Ma. –3DB	2 Ma. –1DB	3 Ma. –3DB	3 Ma. –1DB	5 Ma. –3DB	5 Ma. –1DB	Max. Level DBM	Stray Fields Shield	Case & Mounting	Weight
G-18‡	60.	1000 or 250	125 or 31	2.83:1	500	44	5 to 20,000	8 to 7000	5 to 20,000	8 to 7000	6 to 20,000	9 to 7000	7 to 20,000	10 to 7000	+10	P1-H P5-H	GP-1F GP-3P	3.2 oz. 10 oz.
G-18TS‡																		
G-19‡	65.	1000 or 250	1000 or 250	1:1	540	230	12 to 7000	15 to 3800	12 to 7000	15 to 3800	12 to 7000	15 to 3800	20 to 7000	40 to 3800	+10	P1-H P5-H	GP-2L GP-4T	5¼ oz. 11½ oz.
G-19TS‡																		
G-30‡	20.	1000 CT.	2500 CT.	1:1.58	350	1800	20 to 8000	40 to 4200	22 to 8000	45 to 4200	40 to 8000	75 to 4200	70 to 8000	160 to 4200	+ 8	P1 P5	GP-1F GP-3R	3.2 oz. 10. oz.
G-30TS‡																		

New Item. ‡ Static shield. § Balanced two windings. §§ Balanced parallel windings. ** Balanced windings C.T. CT For Center Tap.

Note: Power level shown is maximum value for lowest frequency shown. When low frequency response is higher than low frequency indicated, power level can be increased by adding plus 3 dbm each time frequency is doubled, providing power level does not exceed plus 25 dbm.



INTERSTAGE GEOFORMERS

Type No.	Primary Inductance @ 10MV–60CPS	Primary Matching Impedance In Ohms	Secondary Matching Impedance In Ohms	D.C. Resistance Primary In Ohms	D.C. Resistance Secondary In Ohms	Turns Ratio	Frequency Response In C.P.S. ± 1DB	Max. Level DBM	Stray Fields Shield	Case	Weight
G-31‡ G-32‡	350 h.	10,000 § or 2500 §§	100,000 § or 25,000 §§	1400	10,000	1–3.16	5–5000	–15	P1-H P5-H	GP-2K GP-4T	5¼ oz. 11½ oz.
G-33‡ G-34‡	725 h.	10,000 § or 2500 §§	90,000 § or 22,500 §§	2100	14,000	1–3	3–3500	–10	P1-H P5-H	GP-3P GP-5W	7¾ oz. 1 lb.
G-36 G-36TS	135 h.	10,000 § or 2500 §§	22,500 § or 5625 §§	1600	2350	1–1.5	13.5–25,000	–10	P1 P5	GP-1D GP-3R	2¾ oz. 10 oz.
G-40‡ G-40TS‡	230 h.	10,000 § or 2500 §§	483,000 § or 120,700 §§	1100	17,000	1–7	7.5–1500	–10	P1-H P5-H	GP-3P GP-5W	7¾ oz. 1 lb.
G-48 G-48TS	18 h.	1000 § or 250 §§	250 § or 67½ §§	165	40	2–1	10–30,000	–10	P1 P5	GP-1D GP-3P	2¾ oz. 10 oz.
G-135 G-235	300 h.	10,000 § or 2500 §§	75,000 § or 18,750 §§	2800	9000	1–2.75	6–5000	–15	P1-H P1-H	GP-1D GP-1F	3.2 oz. 3.2 oz.
G-335	80 h.	10,000 § or 2500 §§	75,000**	1700	5400	1–2.72	20–10,000	–10	P1-H	AF-1	1.5 oz.
G-336	160 h.	10,000 § or 2500 §§	22,500**	2600	4200	1–1.5	12–20,000	–10	P1-H	AF-1	1.5 oz.
G-435 G-435TS	285 h.	10,000 § or 2500 §§	90,000**	2700	9500	1–3	6.5–5000	–15	P1-H P5-H	GP-1F GP-3R	3.2 oz. 10 oz.
G-437‡ G-437TS‡	375 h.	10,000 § or 2500 §§	22,500**	2000	3650	1–1.5	6–15,000	–20	P1-H P5-H	GP-1F GP-3R	3.2 oz. 10 oz.

OUTPUT GEOFORMERS

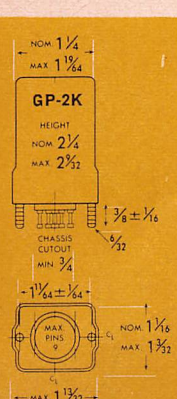
standard

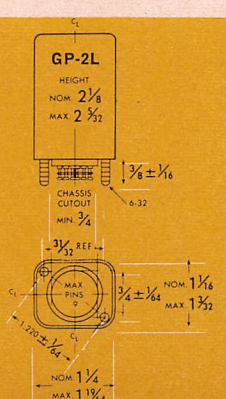
Type No.	Primary Impedance in Ohms	Secondary Impedance in Ohms	Primary Inductance @ 100 MV	Freq. Resp. In C.P.S. ± 1 DB	Max. Level DBM	DC Resistance Primary in Ohms	DC Resistance Secondary in Ohms	Turns Ratio	Stray Fields Shield	Case and Mounting	Weight
G-51	15,500 § or 3750 §§	500 §-125 §§	915 h.	3–7000	–10	2600	80	5.47-1	P1-H	GP-2K	5¼ oz.
G-51A	15,500 § or 3750 §§	500 §-125 §§	65 h.	45–7000	+10	2600	80	5.47-1	P1-H	GP-2K	5½ oz.
G-52	20,000 § or 5000 §§	16 §-12.8 §-6½ 4 §§-2 §§-1½ §-.35 §§	1750 h.	2–3500	–10	4000	3.2	35.5-1	P1-H	GP-3P	7¾ oz.
G-53	16,000 § or 4000 §§	500 §-333-233 200 §-125 §§-67½ § 50 §§-17 §§	1600 h.	2–3000	–10	4400	105	5.65-1	P1-H	GP-3P	7¾ oz.
G-53A	16,000 § or 4000 §§	500 §-333-233 200 §-125 §§-67½ § 50 §§-17 §§	94 h.	35–3000	+10	4400	105	5.65-1	P1-H	GP-3P	8¼ oz.
G-54	20,000 § or 5000 §§	60 §-45-30 §-24 15 §§-7½ §§-5 §-1.3 §§	1750 h.	2–3000	–10	4000	12.5	18.25-1	P1-H	GP-3P	7¾ oz.
G-59	600 §-150 §§	600 §-150 §§	15 h.	7–6000	+10	46	62	1-1 or 2:1 or 1:2	P3-H	GP-4T	11½ oz.

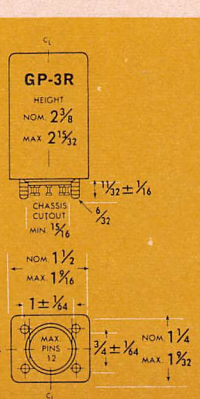
miniature and sub-miniature

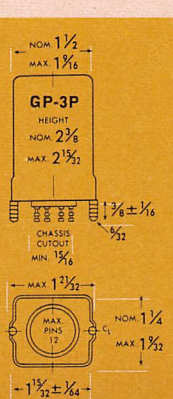
G-57	18,000 CT	500 §-333-233 200 §-125 §§-67½ § 50 §§-17 §§	280 h.	10–22,000	–	2200	137	P1	6-1	GP-1D	2¾ oz.
G-64	500 or 125	500 or 125	3. h.	28–30,000	+10	80	80	P1	1-1	GP-1D	2¾ oz.
G-65	500 or 125	16 or 4	3. h.	28–30,000	+10	72	3.9	P1	5.6-1	GP-1D	2¾ oz.
G-150	15,000 CT §	16 §-12-8 §-6½ 4 §§-2 §§-1½ §-.35 §§	1000 h.	3–10,000	–20	6500	4.5	P1-H	30.5-1	GP-1D	3.2 oz.
G-155	15,000 CT §	60 §-45-30 §-24 15 §§-7½-5 §-1.3 §§	1000 h.	3–15,000	–20	6500	21	P1-H	15.8-1	GP-1D	3.2 oz.
G-250	15,000 CT §	16 §-12-8 §-6½ 4 §§-2 §§-1½ §-.35 §§	1000 h.	3–10,000	–20	6500	4.5	P1-H	30.5-1	GP-1F	3.2 oz.
G-255	15,000 CT §	60 §-45-30 §-24 15 §§-7½-5 §-1.3 §§	1000 h.	3–15,000	–20	6500	21	P1-H	15.8-1	GP-1F	3.2 oz.
G-350	15,000 CT §	16 § or 4 §§	400 h.	8–25,000	–10	4100	7	P1-H	30.6-1	AF-1	1.5 oz.
G-355	15,000 CT §	45 §§ or 11 §§	400 h.	8–25,000	–10	4100	12	P1-H	18.25-1	AF-1	1.5 oz.
G-455	20,000 § or 5000 §§	50 §-25-12.5-3	1450 h.	13–15,000	–10	4000	22	P1-H	20:1	GP-1F	3.2 oz.

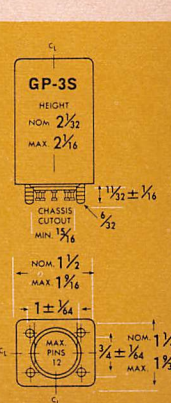
New Item. §§ Balanced parallel windings. ** Balanced windings C.T. ‡ Static shield. § Balanced two windings. **CT** For Center Tap.











GEOFORMERS
INSTRUMENTATION

Use tested, time proven, Triad Geoformers are unparalleled in their record for performance achievements. Triad is noted for economy and meeting rigid delivery requirements on specially developed types. Our engineers can help you with any of your toughest problems . . . specify Triad for the finest . . . the fastest . . . the future oriented.

A.V.C. OUTPUT GEOFORMERS

Type No.	Primary Impedance in Ohms	Secondary Impedance in Ohms	Primary Inductance @ 100 MV	DC Resistance Primary in Ohms	DC Resistance Secondary in Ohms	Turns Ratio	Stray Fields Shield	Case and Mounting	Weight
G-72	16,000 § or 4000 §§	256,000 § or 64,000 §§ and 150 § or 37½ §§	500 h.	1900	16000 32	1-4 10.3-1	P1-H	GP-3P	7¾ oz.
miniature									
G-266	10,000 § or 2500 §§	10,000 § CT & 10,000 §	150 h.	700	1220 1440	1:1:1	P1-H	GP-1F	3.2 oz.
G-274	15,000 § CT	240,000 § CT and 140. § or 35. §§	200 h.	2000	9800 60	1-4 10.3-1	P1-H	GP-1F	3.2 oz.
G-275	15,000 § CT	240,000 § CT and 35. §§	200 h.	2000	9800 16	1-4 20.6-1	P1-H	GP-1F	3.2 oz.
G-276	20,000 § CT	240,000 § CT and .24 § CT	230 h.	2400	10000 5.2	1-3.46 28.8-1	P1-H	GP-1F	3.2 oz.
G-475	15,000 § CT	240,000 § CT and 35. §§	230 h.	2400	11000 10	1-4 20.6-1	P1-H	GP-1F	3.2 oz.

GEOFORMER REACTORS
standard

Type No.	Inductance 100 MV	$Q=\frac{\omega L}{R}$ @ 60 cy.	DC Resistance in Ohms	Low Percentage Taps	Stray Fields Shield	Case and Mounting	Weight
G-80	1050 §-800 § 550 §-400 § 280 § h.	11	13,000	None	P1-H	GP-2K	5½ oz.
G-84	1000 § h. 250 §§ h.	14	10,000	4 - 2½% 2 - 5%	P1-H	GP-3P	8¼ oz.
G-85	500 § h. 125 §§ h.	14	6000	4 - 3% 2 - 6%	P1-H	GP-3P	8¼ oz.
G-92	50 § to 53 h.	7	750	6 - ½ h. Taps From one end	P1-H	GP-2K	5½ oz.

miniature

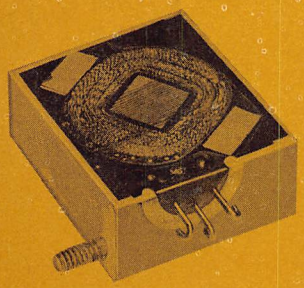
Type No.	Inductance 100 MV	$Q=\frac{\omega L}{R}$ @ 60 cy.	DC Resistance in Ohms	Low Percentage Taps	Stray Fields Shield	Case and Mounting	Weight
G-183	1050 § h.-800 § h.-550 § h. 400 § h.-280 § h.-245 § h. 153 § h.-133 § h.-80 § h. 68 § h.-45 § h.	9	11,500	None	P1-H	GP-1E	3.4 oz.
G-283	1050 § h.-800 § h.-550 § h. 400 § h.-280 § h.-245 § h. 153 § h.-133 § h.-80 § h. 68 § h.-45 § h.	9	11,500	None	P1-H	GP-1G	3.4 oz.
G-284	1000 § h.-250 §§ h.	9	13,000	4 - 2%	P1-H	GP-1G	3.4 oz.
G-285	500 § h.-125 §§ h.	9	10,500	4 - 2½%	P1-H	GP-1G	3.4 oz.
G-493	1090 h.-770 § h.-555 h. 385 h.-275 h.	10	12,000	None	P1	GP-1F	3.2 oz.

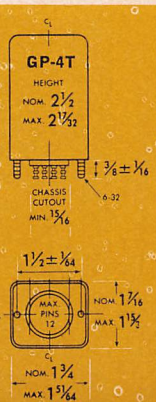
sub-miniature

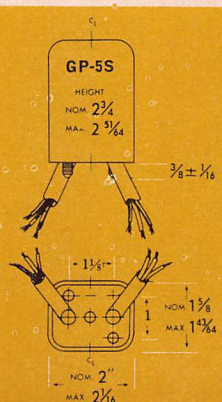
G-388	1000 h.	9	12,000	2 - 2%	P1	AF-1	1.5 oz.
G-389	500 h.	9	12,000	2 - 2%	P1	AF-1	1.5 oz.
G-391	300 h.	9	5400	2 - 2%	P1	AF-1	1.5 oz.
G-394	100 h.	9	1950	2 - 2%	P1	AF-1	1.5 oz.

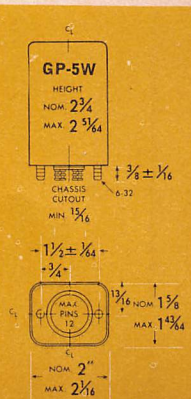
§ Balanced, two windings. §§ Balanced, parallel windings. **CT** For Center Tap.

Engineered by Triad to customer's requirements.









Triad pulse transformers excel in their performance characteristics, and are constructed to give peak performance and outlive any competitive unit. Available in hermetically sealed (H) cases to meet MIL Specs, epoxy molded (E) and in miniature plug in types . . . for superior quality, always specify Triad.
Triad photoflash transformers are the finest available for use in electronic flash circuits.

PULSE

PHOTOFLASH

PULSE / blocking oscillator type

Type No.	Pulse Voltage per Winding	Pulse Duration—μ Sec.	Maximum Duty Ratio	Load Impedance —Ohms	Figure Number or Case
PL-4	100-100	.54 to .66	.01	500	Fig. 1
PL-5	100-100-100	.36 to .54	.01	2000	Fig. 2
PL-6	100-100-100	.36 to .54	.01	2000	Fig. 3

PULSE / high speed low power / ferrite toroidal core

Type No.	Turns Ratio	Pulse Width μ Sec.	Rise Time μ Sec.	Repetition Rate	Suggested Load Ohms	Output Volts	Primary Inductance	Leakage Inductance	Utrad or Utah Equivalent	Figure
PL-80H PL-80P PL-80E	1-1	.07	.03	1-2 Mc	200	15	125 μH	12 μH	X80H X80P X80E	10 9 13
PL-81H PL-81P PL-81E	2-1	.07	.03	1-2 Mc	200	20	150 μH	15 μH	X81H X81P X81E	10 9 13
PL-82H PL-82P PL-82E	3-1	.08	.03	1-2 Mc	100	15	160 μH	15 μH	X82H X82P X82E	10 9 13
PL-83H PL-83P PL-83E	4-1	.08	.03	1-2 Mc	100	15	180 μH	20 μH	X83H X83P X83E	10 9 13
PL-84H PL-84P PL-84E	5-1	.08	.03	1-2 Mc	100	15	200 μH	2 μH	X84H X84P X84E	10 9 13

PULSE / low speed low power / silicon core

Type No.	Mil. Type	Pulse Voltage per Winding	Pulse Duration—μ Sec.	Maximum Duty Ratio	Load Impedance —Ohms	DC Resistance 1	2	3	Utrad or Utah Equivalent	Fig. No. or Case
PL-124E PL-124H	TF1QX36YY	300-300-300	.6 to 5	.002	150	4.1	4.6	5	X-124F X-124H-2	Fig. 4 Fig. 5
PL-140E PL-140H PL-140M	TF1QX36YY	100-400-100	.6 to 5	.002	175	2.05	9.2	2.5	X-140F X-140H-2 X-140H-6	Fig. 4 Fig. 5 AG
PL-139E PL-139H PL-139M	TF1QX36YY	100-100	.3 to 1.5	.002	250	2.05	2.3		X-139F X-139H-2 X-139H-6	Fig. 4 Fig. 5 AF
PL-146E PL-146H PL-146M	TF1QX36YY	300-300	.6 to 5	.002	250	4.1	4.6		X-146F X-146H-2 X-146H-6	Fig. 4 Fig. 5 AG

PHOTOFLASH

Type No.	Application	Case Dimension-Inches H	W	D	Matching Dimension-Inches MW	MD	Weight Lbs.
VR-30Z	From 115v-60 cycle line or 4 volt-180 cy. virbrator (Radiart 5514-4 or equiv.) to 350V RMS @ 14 ma.	2 1/16	3 1/8	2 1/8	2 13/16		1 1/2
PL-10	Trigger coil. Turn ratio 1:30	3/4		5/8			1 1/2 oz.

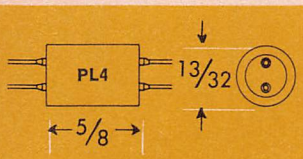


FIG. 1

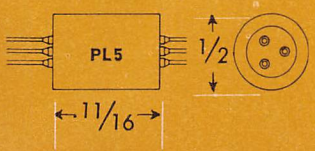


FIG. 2

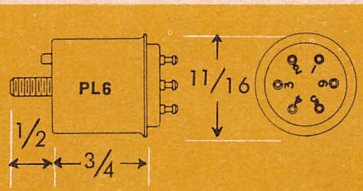


FIG. 3

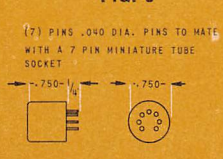


FIG. 9

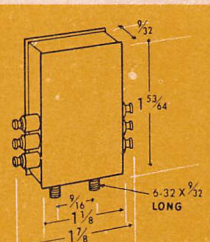


FIG. 5

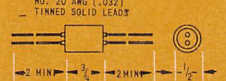


FIG. 10

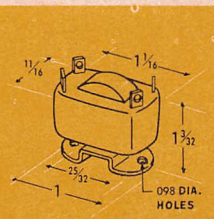
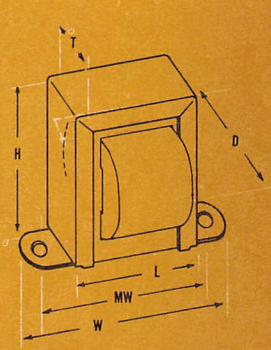


FIG. 4

FIG. 13



Z Case

POWER

Triad Power Supply Transformers are precision units manufactured to finest tolerances. Triad's plate powers have become increasingly popular for amateur radio power supplies. Exceptionally compact, their performance continues to increase the demand for them for both 115 and 230 volt applications. The two windings should be connected in parallel with 115 volt line . . . in series for 230 volt. Triad's new plate power units employ latest design techniques and materials to provide smaller, lighter weight units.

REGULATED POWER SUPPLY / primary 115 volt, 60 cycle

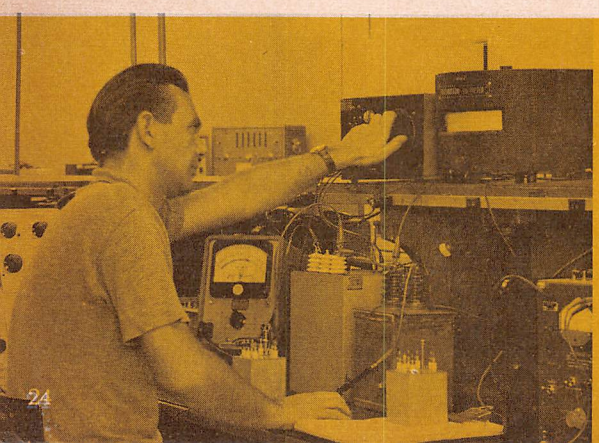
Type No.	Secondary AC Volts ± 5%	Secondary D.C. Ma. Cond. In	Secondary D.C. Ma. Choke In	Rectifier Filament Volts ± 5%	Rectifier Filament Amps	Other Filaments Volts ± 5%	Other Filaments Amps	RSM Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
R-70A‡	440–0–440	59	75	6.3 6.3	.6 .3	6.3 6.3	.9 3	2000	A	1	125	1¼	3⅞	3 3/32	3⅛	2½	2¼	4.5
R-26A‡	440–360–0–360–440	157	200	5	3	6.3 CT 6.3 6.3	8 3 1	2000	A	1	150	2¼	4⅝	3 15/16	4¾	3	3⅝	12
R-28A‡	625–0–625	236	300	5	6	6.3 CT 6.3* 6.3*	8 3 3	2500	A	2	176	3	5 5/16	4½	5⅝	3½	4⅝	20
R-46A‡	625–0–625 130	278 50	350 –	5	4	6.3 6.3* 6.3*	4 1 1	2500	A	2	176	3	5 5/16	4½	5⅝	3½	4⅝	20
R-27A‡	750–0–750	315	400	5	6	6.3 6.3	8 3	3000	A	2	176	4½	5 5/16	4½	7⅛	3½	6⅛	30

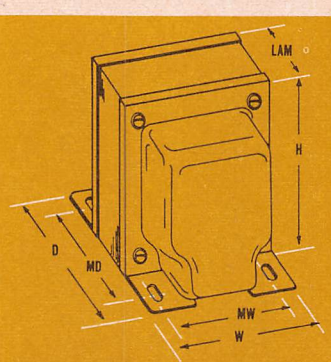
PLATE POWER / primary 115 volt, 60 cycle

Type No.	Primary AC Volts	Secondary AC Volts ± 5%	Secondary D.C. MA — Choke Input CCS	Secondary D.C. MA — Choke Input ICAS	Rectifier Filament Volts ± 5%	Rectifier Filament Amps	RMS Test Voltage	Case Type	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
P-1A‡	115	220–110–0–110–220	160	192	5	3	1500	A	1	112	1¼	3½	2 31/32	3¼	2¼	2⅛	4
P-3A‡	115	300–150–0–150–300	300	360	5	4	1500	A	1	125	1¾	3⅞	3 3/32	3⅝	2½	2¾	6.25
P-5A‡	115	550–0–550	250	300	5	4	2500	A	1	150	1½	4¾	3 15/16	4	3	2⅞	8
P-7A‡	115	617.5–0–617.5	250	300	5	4	2500	A	1	150	1¾	4⅝	3 15/16	4¼	3	3⅛	9
P-9A‡	115	617.5–0–617.5	500	600	5	6	2500	A	1	176	3	5 5/16	4½	5⅝	3½	4⅝	18
P-11A‡	115	727.5–0–727.5	250	300	–	–	2500	A	1	150	1½	4⅝	3 15/16	4	3	2⅞	8.5
P-213AL‡	115–230	890–0–890	250	300	–	–	3000	AL	1 + 2○	176	1¼	5 5/16	4½	3⅞	3½	2⅞	9.5
P-14A‡	115	890–712.5–0–712.5–890	250	300	–	–	3000	A	2	176	2	5 5/16	4½	4⅝	3½	3⅝	13.5
P-15AL▲‡	115	1170–0–1170	250	300	–	–	3500	AL	1 + 2○	176	2½	5 5/16	4½	5⅛	3½	4⅛	16.5
P-215AL‡	115–230	1170–0–1170	250	300	–	–	3500	AL	1 + 2○	176	1¾	5 5/16	4½	4⅜	3½	3⅜	13.5
P-16AL▲‡	115	1215–0–1215	500	600	–	–	4000	AL	1 + 2○	212	3	6½	5½	6¼	4¼	4¼	30
P-216AL‡	115–230	1215–0–1215	500	600	–	–	3500	AL	1 + 2○	212	2½	6½	5½	5¾	4¼	3¾	25
P-17AL▲‡	115	1440–0–1440	250	300	–	–	4000	AL	1 + 2○	176	3	5 5/16	4½	5⅝	3½	4⅝	19.75
P-217AL‡	115–230	1440–0–1440	250	300	–	–	4000	AL	1 + 2○	176	2	5 5/16	4½	4⅝	3½	3⅝	14.75
P-18AL▲‡	115	1440–0–1440	500	600	–	–	4000	AL	1 + 2○	212	3½	6½	5½	6¾	4¼	4¾	32
P-218AL‡	115–230	1440–0–1440	500	600	–	–	4000	AL	1 + 2○	212	3	6½	5½	6¼	4¼	4¼	27.5
P-20AL▲‡	115	1650–0–1650	350	420	–	–	4500	AL	1 + 2○	212	3½	6½	5½	6¾	4¼	4¾	33.3
P-220AL‡	115–230	1650–0–1650	350	420	–	–	4500	AL	1 + 2○	212	2½	6½	5½	5¾	4¼	3¾	24.5
PR-21AL‡	115–230	1650–0–1650	500	600	–	–	4500	AL	1 + 2○	212	3	6½	5½	6¼	4¼	4¼	29

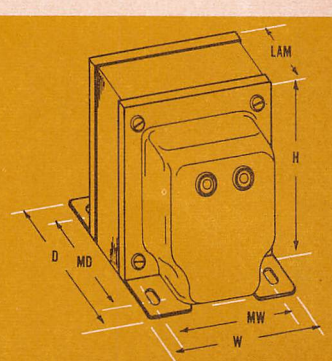
* Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — OR connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.

CT For Center Tap. ☞ New Item. ▲ Discontinued item available until stock depleted. ○ Plate leads out side of case for rectifiers. ‡ Static shield.





A Case



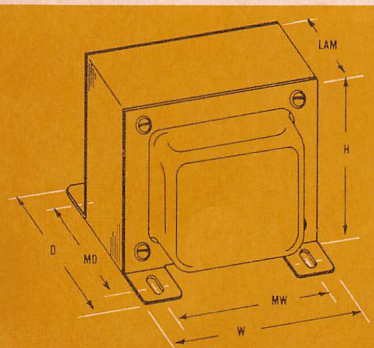
AL Case

Triad power components incorporate features rarely before available in comparable plate and filament units . . . UL approved lead materials . . . Climatite vacuum varnish impregnated, insuring unequalled moisture protection and eliminating lamination chatter . . . copper foil shielding . . . minimum temperature rise (well under 50°C) . . . permanent, legible circuit information on every satin smooth Triad baked gray enamel case . . . offer you quality substantially beyond commercial grades ever before available.

COMBINED PLATE AND FILAMENT / primary 115 volt, 60 cycle

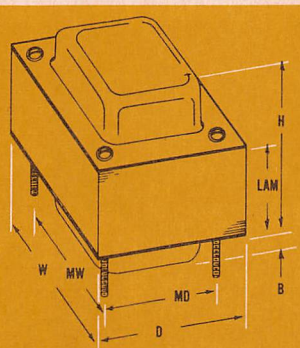
Type No.	Secondary AC Volts ± 5%	Secondary D.C. Ma. Cond. Input	Secondary D.C. Ma. Choke Input	Rectifier Filament Volts ± 5%	Rectifier Filament Amps	Other Filaments Volts ± 5%	Other Filaments Amps	RMS Test Volts	Case Type	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
R-4A	250–0–250‡	40	51	–	–	6.3 CT	2	1500	A	1	88	1⅛	2 25/32	2 11/32	2 5/8	1¾	1⅞	1.75
R-4B	250–0–250‡	40	51	–	–	6.3 CT	2	1500	B	1	88	1⅛	1⅞	2 5/8	2 3/16	2 3/16	1¾	1.75
R-5A	300–0–300‡	65	82	–	–	6.3 CT	2.7	1500	A	1	100	1	3 3/32	2 21/32	2 5/8	2	1⅞	2.75
R-5B	300–0–300‡	65	82	–	–	6.3 CT	2.7	1500	B	1	100	1	1¾	3	2½	2½	2	2.75
R-6A	240–0–240‡	50	63.5	5	2	6.3 CT	2	1500	A	1	100	1	3 3/32	2 21/32	2 5/8	2	1⅞	2.75
R-6B	240–0–240‡	50	63.5	5	2	6.3 CT	2	1500	B	1	100	1	1¾	3	2½	2½	2	2.75
R-7A	300–0–300‡	50	63.5	5	2	6.3 CT	2	1500	A	1	100	1	3 3/32	2 21/32	2 5/8	2	1⅞	2.75
R-7B	300–0–300‡	50	63.5	5	2	6.3 CT	2	1500	B	1	100	1	1¾	3	2½	2½	2	2.75
R-22A	190–160–0–160–190‡	70	89	– –	– –	6.3 6.3 CT	.6 3	1500	A	1	100	1	3 3/32	2 21/32	2 5/8	2	1⅞	2.75
R-22B	190–160–0–160–190‡	70	89	– –	– –	6.3 6.3 CT	.6 3	1500	B	1	100	1	1¾	3	2½	2½	2	2.75
R-8A	250–0–250‡	75	95	5	2	6.3 CT	2.5	1500	A	1	100	1½	3 3/32	2 21/32	3⅛	2	2 3/8	3
R-8B	250–0–250‡	75	95	5	2	6.3 CT	2.5	1500	B	1	100	1½	2¼	3	2½	2½	2	3
R-9A	300–0–300‡	75	95	5	2	6.3 CT	3	1500	A	1	112	1¼	3½	2 31/32	3¼	2¼	2⅛	3.5
R-9B	300–0–300‡	75	95	5	2	6.3 CT	3	1500	B	1	112	1¼	2	3⅜	2 13/16	2 13/16	2¼	3.5
R-10A	262.5–0–262.5‡	90	115	5	2	6.3 CT	5	1500	A	1	112	1⅝	3½	2 31/32	3⅝	2¼	2½	4.5
R-10B	262.5–0–262.5‡	90	115	5	2	6.3 CT	5	1500	B	1	112	1⅝	2⅜	3⅜	2 13/16	2 13/16	2¼	4.5
R-11A	350–0–350‡	90	115	5	2	6.3 CT	3.5	1500	A	1	112	1¾	3½	2 31/32	3¾	2¼	2⅝	4.25
R-11B	350–0–350‡	90	115	5	2	6.3 CT	3.5	1500	B	1	112	1¾	2½	3⅜	2 13/16	2 13/16	2¼	4.25
R-12A	275–0–275‡	110	140	5	2	6.3 CT	5	1500	A	1	125	1¼	3⅜	3 3/32	3⅛	2½	2¼	4.5
R-12B	275–0–275‡	110	140	5	2	6.3 CT	5	1500	B	1	125	1¼	2¼	3¾	3⅛	3⅛	2½	4.5
R-14A	350–0–350‡	125	160	5	3	6.3 CT	4.5	1500	A	1	125	1¾	3⅜	3 3/32	3⅝	2½	2¾	6
R-14B	350–0–350‡	125	160	5	3	6.3 CT	4.5	1500	B	1	125	1¾	2¾	3¾	3⅛	3⅛	2½	6
R-72A	400–0–400‡	140	178	5	3	6.3 CT	4	1500	A	2	138	1¼	4¼	3 13/32	3⅝	2¾	2½	5.75
R-16A	350–0–350‡	160	200	5	3	6.3 CT	5	1500	A	1	125	2¼	3⅜	3 3/32	4⅛	2½	3¼	7
R-16B	350–0–350‡	160	200	5	3	6.3 CT	5	1500	B	1	125	2¼	3¼	3¾	3⅛	3⅛	2½	7
R-17A	375–0–80–375‡	160	200	5	3	6.3 CT 2.5 CT	5 5	1500	A	2	138	1⅞	4¼	3 13/32	4¼	2¾	3⅛	7.25
R-18A	375–0–375‡	175	220	5	3	6.3 CT	8	1500	A	1	138	2	4¼	3 13/32	4 3/8	2¾	3¼	8.5
R-18B	375–0–375‡	175	220	5	3	6.3 CT	8	1500	B	1	138	2	3⅛	4⅛	3 7/16	3 7/16	2¾	8.5
R-58A	437.5–0–437.5‡ (2000V Test)	185	235	5 (2000V Test)	3	6.3 6.3	3 4	1500	A	2	150	2	4⅝	3 15/16	4½	3	3⅜	9.5
R-19A	375–80–0–375‡	200	254	5	3	6.3 CT 2.5 CT	6 10	1500	A	2	150	2	4⅜	3 15/16	4½	3	3⅜	9.5
R-20A	350–0–350‡	200	255	5	3	6.3 CT	8	1500	A	1	138	2	4¼	3 13/32	4 3/8	2¾	3¼	9.25
R-20B	350–0–350‡	200	255	5	3	6.3 CT	8	1500	B	1	138	2	3⅛	4⅛	3 7/16	3 7/16	2¾	9.25
R-21A	400–0–400‡	200	255	5	3	6.3 CT	6	1500	A	2	138	2½	4¼	3 13/32	4⅞	2¾	3¾	9.25
R-21B	400–0–400‡	200	255	5	3	6.3 CT	6	1500	B	1	138	2½	3⅝	4⅛	3 7/16	3 7/16	2¾	9.25
R-71A	450–0–450‡ (2000V Test)	250	317	5 (2000V Test)	4	6.3 6.3 CT	4 2	1500	A	2	150	2¼	4⅝	3 15/16	4¾	3	3⅝	12
R-24A	400–0–400‡	300	380	5	6	6.3 CT	6	1500	A	1	150	2	4⅝	3 15/16	4½	3	3⅜	14
R-24B	400–0–400‡	300	380	5	6	6.3 CT	6	1500	B	1	150	2	3⅛	4½	3¾	3¾	3	14
R-25A	400–0–400‡	500	635	5	6	6.3 6.3 CT	3 7	2000	A	2	176	3	5 5/16	4½	5⅝	3½	4⅝	19
R-93A	0–150–160–170 Pri 110–120V 60cps‡	500 (250 MA in doubler ckt)	—	–	–	6.3 CT	6	1500	A	1	138	2½	4¼	3 13/32	4⅞	2¾	3¾	9.12
R-94H	180‡ 177‡	(500 MA in doubler ckt) 5 MA (Bias)		– –	– –	6.3 6.3	5.5 5.5	1500	H	2	150	3	3 15/16	4⅝	5½	3¾	4⅜	17

CT For Center Tap. New Item. ‡ Static shield.

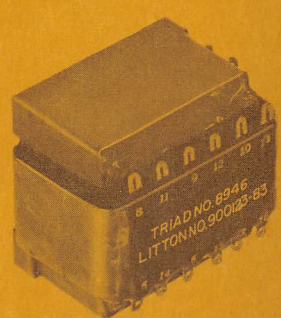


H Case

Additional dimension data Page 40



B Case



Special Triad design

POWER

Triad Instrument Power Transformers have become the leaders in the critically challenging field of instrumentation.

Never have the outstanding features of Triad Combined Plate and Filament Power Transformers been available at such realistic costs. No quality or performance requirement has been overlooked . . . specify Triad and be certain. Shielding, impregnation, chatter freedom . . . to Triad's demanding quality control standards.

FOR PREAMPLIFIERS, VTVM, ETC. / primary 115 volt — 60 cycle

Type No.	Secondary AC Volts ±5%	Secondary D.C. Ma. Cond. In	Secondary D.C. Ma. Choke In	Rectifier Filament Volts ±5%	Rectifier Filament Amps	Other Filaments Volts ±5%	Other Filaments Amps	RSM Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
R-68A‡	400–0–400	30	38	5	2	6.3∗ 6.3∗	1.2 1.2	2000	A	1	100	1½	3 3/32	2 11/32	3 1/8	2	2 3/8	3
R-2C‡	135	15	19	–	–	6.3	.9	1500	C	Leads	63	1 1/8	1 3/4	1 7/8	1 15/16	–	1¼	1
R-23B‡	125–0–125	22	28	–	–	6.3 15.5–12.6	.8 .6	1500	B	1	88	1⅛	1⅞	2⅜	2 3/16	2 3/16	1¼	1.75
R-3A‡	250–0–250	20	25.5	–	–	6.3 CT	2	1500	A	1	88	1	2 25/32	2 11/32	2½	1¾	1¾	1.75
R-29A‡	115–0–115	40	51	–	–	6.3 CT	1.5	1500	A	1	88	⅞	2 25/32	2 11/32	2⅜	1¾	1 5/8	1.75
R-30X‡	135	50	64	–	–	6.3	1.5	1500	X	Leads	88	1	2 5/32	3¼	2⅛	3 1/8	–	1.5
R-54X‡	115	15	19	–	–	6.3	.6	1500	X	Leads	63	¾	1⅝	2 3/16	1 5/8	2⅜	–	1
R-56A‡	130	20	25	–	–	0–15–22.5–30	.6	1500	A	2	88	1¼	2 25/32	2 11/32	2¾	1¾	2	2
R-73B‡	135	200	282	–	–	6.3 CT	5.5	1500	B	1	112	1⅛	1⅞	3⅜	2 3/16	2 13/16	2¼	2.75

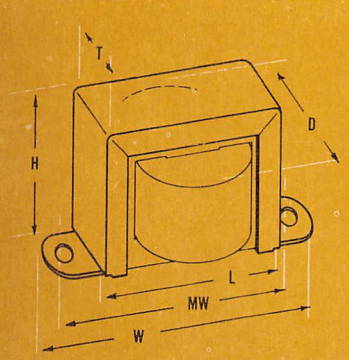
COMBINED PLATE AND FILAMENT / primary 115 volt, 60 cycle

Type No.	Secondary AC Volts ±5%	Secondary D.C. Ma. Cond. Input	Secondary D.C. Ma. Choke Input	Rectifier Filament Volts ±5%	Rectifier Filament Amps	Other Filaments Volts ±5%	Other Filaments Amps	RMS Test Volts	Case Type	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
R-104A‡	250–0–250	40	51	–	–	6.3 CT	2	1500	A	1	88	¾	2 25/32	2 11/32	2¼	1¾	1½	1.55
R-104B‡	250–0–250	40	51	–	–	6.3 CT	2	1500	B	1	88	¾	1½	2⅜	2 3/16	2 3/16	1¾	1.55
R-105A‡	300–0–300	65	82	–	–	6.3 CT	2.7	1500	A	1	100	⅞	3 3/32	2 11/32	2½	2	1¾	2
R-105B‡	300–0–300	65	82	–	–	6.3 CT	2.7	1500	B	1	100	⅞	1⅝	3	2½	2½	2	2
R-106A‡	240–0–240	50	63.5	5	2	6.3 CT	2	1500	A	1	100	¾	3 3/32	2 11/32	2⅜	2	1⅝	2.1
R-106B‡	240–0–240	50	63.5	5	2	6.3 CT	2	1500	B	1	100	¾	1½	3	2½	2½	2	2.1
R-107A‡	300–0–300	50	63.5	5	2	6.3 CT	2	1500	A	1	100	⅞	3 3/32	2 11/32	2½	2	1¾	2.35
R-107B‡	300–0–300	50	63.5	5	2	6.3 CT	2	1500	B	1	100	⅞	1⅝	3	2½	2½	2	2.35
R-108A‡	250–0–250	75	95	5	2	6.3 CT	2.5	1500	A	1	100	1	3 3/32	2 11/32	2⅝	2	1⅞	2.4
R-108B‡	250–0–250	75	95	5	2	6.3 CT	2.5	1500	B	1	100	1	1¾	3	2½	2½	2	2.4
R-109A‡	300–0–300	75	95	5	2	6.3 CT	3	1500	A	1	112	⅞	3½	2 11/32	2¾	2¼	1¾	2.9
R-109B‡	300–0–300	75	95	5	2	6.3 CT	3	1500	B	1	112	⅞	1⅝	3⅜	2 13/16	2 13/16	2¼	2.9
R-110A‡	262.5–0–262.5	90	115	5	2	6.3 CT	5	1500	A	1	112	1⅛	3½	2 11/32	3⅛	2¼	2	3.25
R-110B‡	262.5–0–262.5	90	115	5	2	6.3 CT	5	1500	B	1	112	1⅛	1⅞	3⅜	2 13/16	2 13/16	2¼	3.25
R-111A‡	350–0–350	90	115	5	2	6.3 CT	3.5	1500	A	1	112	1⅛	3½	2 11/32	3⅛	2¼	2	3.25
R-111B‡	350–0–350	90	115	5	2	6.3 CT	3.5	1500	B	1	112	1⅛	1⅞	3⅜	2 13/16	2 13/16	2¼	3.25
R-112A‡	275–0–275	110	140	5	2	6.3 CT	5	1500	A	1	112	1¼	3½	2 11/32	3¼	2¼	2⅛	3.7
R-112B‡	275–0–275	110	140	5	2	6.3 CT	5	1500	B	1	112	1¼	2	3⅜	2 13/16	2 13/16	2¼	3.7
R-113A‡	325–0–325	40	51	5	2	6.3 CT	2	1500	A	2	100	1	3 3/32	2 11/32	2⅝	2	1⅞	2.3
R-113B‡	325–0–325	40	51	5	2	6.3 CT	2	1500	B	1	100	1	1¾	3	2½	2½	2	2.3
R-114A‡	350–0–350	125	160	5	3	6.3 CT	4.5	1500	A	1	125	1⅜	3⅞	3 3/32	3¼	2½	2⅜	4.7
R-114B‡	350–0–350	125	160	5	3	6.3 CT	4.5	1500	B	1	125	1⅜	2⅜	3¾	3⅛	3⅛	2½	4.7
R-115A‡	340–0–340	70	89	5	2	6.3 CT	2.5	1500	A	2	100	1¼	3 3/32	2 11/32	2⅞	2	2⅛	3.5
R-115B‡	340–0–340	70	89	5	2	6.3 CT	2.5	1500	B	1	100	1¼	2	3	2½	2½	2	3.5
R-116A‡	350–0–350	160	200	5	3	6.3 CT	5	1500	A	1	125	1⅝	3⅞	3 3/32	3½	2½	2⅝	5.65
R-116B‡	350–0–350	160	200	5	3	6.3 CT	5	1500	B	1	125	1⅝	2⅝	3¾	3⅛	3⅛	2½	5.65
R-118A‡	375–0–375	175	220	5	3	6.3 CT	8	1500	A	1	138	1⅝	4¼	3 13/32	4	2¾	2⅞	7.45
R-118B‡	375–0–375	175	220	5	3	6.3 CT	8	1500	B	1	138	1⅝	2¾	4⅛	3 3/16	3 3/16	2¾	7.45
R-120A‡	350–0–350	200	255	5	3	6.3 CT	8	1500	A	1	138	1¾	4¼	3 13/32	4⅛	2¾	3	8.25
R-120B‡	350–0–350	200	255	5	3	6.3 CT	8	1500	B	1	138	1¾	2⅞	4⅛	3 3/16	3 3/16	2¾	8.25
R-121A‡	400–0–400	200	255	5	3	6.3 CT	6	1500	A	1	138	2	4¼	3 13/32	4⅜	2¾	3¼	8.25
R-121B‡	400–0–400	200	255	5	3	6.3 CT	6	1500	B	1	138	2	3⅞	4⅛	3 3/16	3 3/16	2¾	8.25

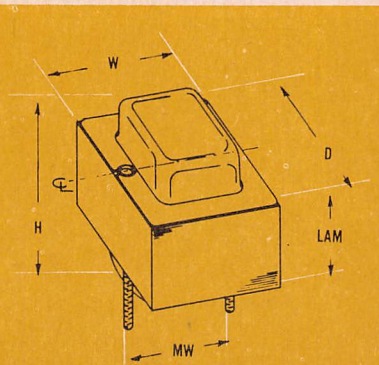
∗ Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — or connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.

CT For Center Tap. ‡ Static shield.

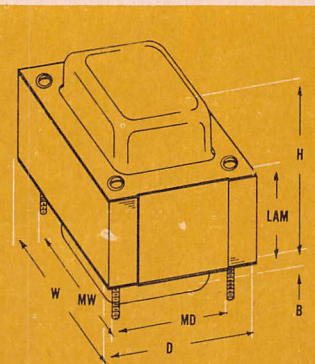
Additional dimension data Page 40



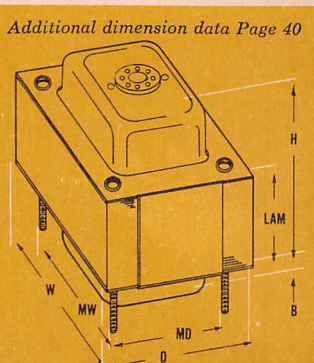
X Case



R-2C



BC Case



BS Case

Triad Special Power Transformers are Climatite treated, both coil and core . . . maximum moisture protection and elimination of lamination chatter result . . . liberal design makes maximum utility and minimum temperature rise inherent.

SPECIAL POWER / multiple filament industrial & tv replacement

Type No.	Secondary AC Volts ±5%	D.C. Ma. Cond. Input	D.C. Ma. Choke Input	Rectifier Filaments Volts ±5%	Rectifier Filaments Amps	Other Filaments Volts ±5%	Other Filaments Amps	RMS Test Volts	Case Type	Lamination Size	Lamination Stack	Lead Holes Used	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
R-37BC‡	367.5–0–367.5	275	350	5	6	6.3 6.3/5‡	8.5 2(d)	1500 4000(d)	BC	150	2¾	1	3⅞	4½	3¾	3¾	3	13
R-38A‡	375–0–375	225	285	5	3	6.3 6.3 6.3	10 2.5 1.2(d)	1500 1500 4000(d)	A	150	2¼	1	4⅝	3 15/16	4¾	3	3⅝	12
R-38BC‡	375–0–375	225	285	5	3	6.3 6.3 6.3	10 2.5 1.2(d)	1500 1500 4000(d)	BC	150	2¼	1	3⅞	4½	3¾	3¾	3	12
R-39A‡▲	320–0–320	225	285	5	3	6.3 6.3	10 1.2(d)	1500 4000(d)	A	150	2¼	1	4⅝	3 15/16	4¾	3	3⅝	12
R-39BC‡	320–0–320	225	285	5	3	6.3 6.3	10 1.2(d)	1500 4000(d)	BC	150	2¼	1	3⅞	4½	3¾	3¾	3	12
R-40A‡▲	390–0–390 or 220–0–220	300	380	5 5	3 3	6.3 6.3	8.5 3.5	2000	A	150	2¾	1	4⅝	3 15/16	5¼	3	4⅛	14
R-40BC‡	390–0–390 or 220–0–220	300	380	5 5 5	3 3 2	6.3 6.3	8.5 3.5	2000	BC	150	2¾	1	3⅞	4½	3¾	3¾	3	14
R-42BC‡	337.5–0–337.5	185	235	5	3	6.3 6.3	7 2(d)	1500 4000(d)	BC	150	1⅜	1	2½	4½	3¾	3¾	3	8
R-47BS‡▲	362.5–0–362.5	225	285	5	3	6.3 6.3	10 2.7(d)	1500 4000(d)	BS	150	2¼	1	3⅜	4½	3¾	3¾	3	12
R-49BC‡	325–0–325	240	305	5	3	6.3 6.3 6.3	9 .9 1.2(d)	1500 1500 4000(d)	BC	150	3	1	4⅛	4½	3¾	3¾	3	15
R-50BC‡	395–0–395 or 325–0–325	310	395	5 5	3 2	6.3* 6.3*	5 5	2000	BC	150	3	1	4⅛	4½	3¾	3¾	3	15
R-50A‡	395–0–395 or 325–0–325	310	395	5 5	3 2	6.3* 6.3* 6.3	5 5 2.6	1500 1500 4000	A	150	2½	1	3⅝	4½	3¾	3¾	3	13
R-49BS‡	325–0–325	240	305	5	3	6.3 6.3 6.3	9 .9 1.2(d)	1500 1500 4000(d)	BS	150	2	1	3⅛	4½	3¾	3¾	3	13
R-51BC‡	252.5–0–252.5	320	405	5	6	6.3* 6.3* 6.3	5 5 1.2(d)	1500 1500 4000(d)	BC	150	2	1	3⅛	4½	3¾	3¾	3	13
R-52BC‡	300–0–300	270	340	5	3	6.3* 6.3* 6.3	5 5 1.2(d)	1500 1500 4000(d)	BC	150	2	1	3⅛	4½	3¾	3¾	3	13
R-60BC‡	230–0–230	300	380	5	6	6.3 6.3 6.3	10 2.5 1.2(d)	1500 1500 4000(d)	BC	150	2¼	1	3⅜	4½	3¾	3¾	3	12
R-61BC‡	280–0–280	300	380	5	6	6.3* 6.3* 6.3	6 6 1.2(d)	1500 1500 4000(d)	BC	150	2¾	1	3⅞	4½	3¾	3¾	3	14
R-62BC‡	340–0–340	290	368	5	6	6.3 6.3 6.3	10 2.5 1.2(d)	1500 1500 4000(d)	BC	150	3½	1	4⅝	4½	3¾	3¾	3	16
R-63BC‡▲	131	980	1.25A.	–	–	6.3 6.3 6.3	9 .6 1.2(d)	1500 1500 4000(d)	BC	150	2	1	3⅛	4½	3¾	3¾	3	11
R-64BC‡	260–0–260	270	340	5	3	6.3	10	1500	BC	150	1½	1	2⅝	4½	3¾	3¾	3	8.75
R-65BC‡	275–0–275	270	340	5	3	6.3	10	1500	BC	150	1⅝	1	2¾	4½	3¾	3¾	3	9
R-66BC‡	290–0–290	270	340	5	3	6.3	10	1500	BC	150	1¾	1	2⅞	4½	3¾	3¾	3	9
R-67BC‡	300–0–300	250	318	5	3	6.3	9	1500	BC	138	2	1	3⅛	4⅛	3 1/16	3 1/16	2¾	9
R-69BC‡	275–0–275	270	340	5	3	6.3	10	1500	BC	138	2	1	3⅛	4⅛	3 1/16	3 1/16	2¾	9
R-74BC‡	340–0–340	190	240	5	3	6.3 6.3	7.8 1.2(d)	1500 7500(d)	BC	150	2¼	1	3⅜	4½	3¾	4 1/16 (Special Mounting)	3 5/16	11
R-76BC‡	325–0–325	350	445	5	6	6.3* 6.3* 6.3	8 5 2(d)	1500 1500 4000(d)	BC	150	2¾	1	3⅞	4½	3¾	3¾	3	13
R-77BC‡	275–0–275	350	445	5 CT	6	6.3 6.3 6.3	8 6 2(d)	1500 1500 4000(d)	BC	150	2¼	1	3⅜	4½	3¾	3¾	3	12
R-77BS‡	275–0–275	350	445	5 CT	6	6.3 6.3 6.3	8 6 2(d)	1500 1500 4000(d)	BSS	150	2¼	1	3⅜	4½	3¾	3¾	3	12
R-78BC‡	350–0–350	200	254	5	3	6.3 6.3 6.3	6 4 2(d)	1500 1500 5000(d)	BC	150	1½	1	2⅝	4½	3¾	3¾	3	9
R-81BC‡	295–0–295	350	445	5	6	6.3 6.3 6.3	8 5 2(d)	1500 1500 4000(d)	BC	150	2½	1	3⅜	4½	3¾	3¾	3	12
R-81BS‡	295–0–295	350	445	5	6	6.3 6.3 6.3	8 5 2(d)	1500 1500 4000(d)	BSS	150	2½	1	3⅜	4½	3¾	3¾	3	12
R-675A‡	330–0–330	270	340	5	6	6.3 6.3	9.35 1.2(d)	1500 4000(d)	A	150	2¼	1	4⅜	3 15/16	4¾	3	3⅝	10

New Item. ‡ Static shield. ▲ Discontinued item available until stock depleted. (d) Damper winding. CT For Center Tap.

* Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — or connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.

POWER RECTIFIER

Triad power transformers perform well in applications requiring intermittent load at increased current ratings . . . voltage doubler rectifiers can be used (derate wattage rating slightly) . . . by applying heavy duty capacitors across output voltage, even greater voltages are obtainable from circuits A and B, as shown below.

Triad Low Voltage units, unexcelled for silicon diode and transistor DC voltages with full wave bridge or bridge rectifier, can be effectively applied with voltage doubler circuits (at one half rated current). Tapped primaries provide for various voltages, between 7 and 40.

UNIVERSAL RECTIFIER POWER / primary 60 cycle

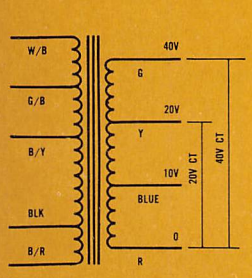
Type No.	Primary Volts	Secondary AC Volts	Secondary AC Amps	DC Volts Half Wave	DC Volts Bridge	RMS Test Voltage	Case Type	Connections	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
F-47U	115	0–17–18	3	6–7	13–14	1500	U	Leads	100	1 3/8	3 1/8	2 5/16	2 13/16	1 5/8	2 3/8	3.2
F-48U	115	0–17–18	6	6–7	13–14	1500	U	Leads	125	1 5/8	3 13/16	3 3/16	3 3/16	2 1/2	2 11/16	5.5
F-49U	115	36∗ 36∗	3 3	13 13	26 26	1500	U	Leads	150	2	4 5/8	3 13/16	3 3/16	3	3 1/16	9.75
F-60U	115	0–6.5–13–19.5–26	3	9	18	1500	U	Leads	112	1 1/8	3 1/2	2 7/8	2 11/16	2 1/4	2 5/16	3.5
F-61U	115	0–24–27–30–33–36	3	13	26	1500	U	Leads	125	1 5/8	3 13/16	3 3/16	3 3/16	2 1/2	2 11/16	5.65
F-67U	110–120	0–24–27–30–33–36	8	13	26	1500	U	Leads	150	2 1/4	4 5/8	3 13/16	3 13/16	3	3 5/16	10.75
F-63U	115	0–8–9∗ 0–8–9∗	2 2	– –	6 – 7 6 – 7	1500	U	Leads	100	1	3 1/8	2 5/16	2 5/16	2	2 5/16	2.3
F-64U	115	0–7–8–9	7	–	5–6–7	1500	U	Leads	112	1 1/8	3 1/2	2 7/8	2 11/16	2 1/4	2 5/16	3.5
F-62U	105–115–125	9∗ 9∗ 9∗ 9∗	10 10 10 10	– – – –	7 7 7 7	1500	U	Leads	150	3 1/2	4 5/8	3 13/16	5 1/16	3	4 1/16	16
F-68U	115	9 CT∗ 9∗ 9∗ 9∗	3.5 3.5 3.5 3.5	– – – –	7 7 7 7	1500	U	Leads	125	1 3/8	3 13/16	3 3/16	2 13/16	2 1/2	2 5/16	5
F-65U	110–120	0–140–150–160	.75	60	115	1500	U	Leads	125	1 3/4	3 13/16	3 3/16	3 5/16	2 1/2	2 13/16	5.8
F-66U	110–120	0–140–150–160	2.5	60	115	1500	U	Leads	176	3	5 3/8	4 7/16	5	3 1/2	4	19
F-79U	115	0–24–26–28–30	15	11.4	22.8	1500	U	Leads & Lugs	150	3 1/2	3 13/16	4 5/8	5 1/16	3 3/4	4 5/16	18.5
F-80U	115♮	0–12–13.5–15–16.5–18∗ 0–12–13.5–15–16.5–18∗	20 20	– –	13 13	1500	U	Leads	176	3 1/4	5 3/8	4 7/16	4 3/4	2 3/4	4 1/2	25
F-84AC	1115 or 230§§§	12 CT∗ 12 CT∗	10 10	– –	8.5 8.5	2000	AC	Leads (2 Holes)	150	2 1/4	4 5/8	3 13/16	4 3/4	3	3 5/8	12.7
R-93A	110–120	0–150–160–170 6.3 CT	.5 6	65	120	1500	A	Leads (1 Hole)	138	2 1/2	4 1/4	3 1/32	4 7/8	2 3/4	3 3/4	9
R-94H	115	180‡ 177V. Bias 6.3V. 6.3V.	.5 DC .005 DC 5.5 5.5	–	Doubler 470	1500	H	Leads (2 Holes)	150	3	3 13/16	4 5/8	5 1/2	3 3/4	4 3/8	17

LOW VOLTAGE RECTIFIER / transistor drive voltage

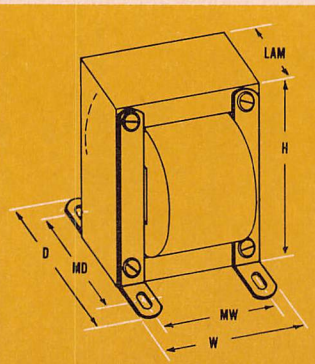
Type No.	Primary Volts	Secondary AC Volts	Secondary AC Amps	DC Volts Half Wave	DC Volts Bridge	RMS Test Voltage	Case Type	Connections	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
F-94X	115♮	10–20 CT–40 CT	.035	15	30	1500	X	Leads	50	1/2	1 3/8	2 3/8	1 3/8	2		.5
F-90X	115♮	10–20 CT–40 CT	.1	15	30	1500	X	Leads	63	3/4	1 5/8	2 13/16	1 5/8	2 3/8		.7
F-91X	115♮	10–20 CT–40 CT	.3	15	30	1500	X	Leads	88	7/8	2 5/32	3 1/16	2	3 1/8		1.5
F-93X	115♮	10–20 CT–40 CT	.75	15	30	1500	X	Leads	100	1	2 13/32	4	2 1/4	3 3/16		2.4
F-92A	115♮	10–20 CT–40 CT	1	15	30	1500	A	Leads (2 Holes)	100	1 3/8	3 3/32	2 23/32	3	2	2 1/4	3.25

∗ Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — OR connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.

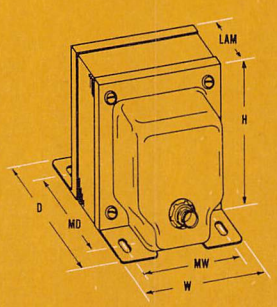
New Item. ♮ Tapped primary to produce lower voltages. §§§ Split winding. **CT** For Center Tap. ‡ Static shield.



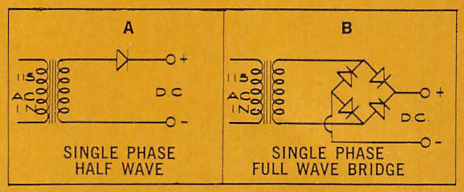
Low Voltage Rectifier Circuitry



U Case



AC Case



Rectifier Circuits

When circuitry requires effective isolation, Triad provides the one Isolation Transformer to assure reliability. Separate primary and secondary windings, separated by conclusive static shielding, provides inductive coupling which is essentially free from capacity coupling.

Extremely versatile, Triad Universal Isolation Transformers have developed an outstanding performance record... knockouts are provided in the N-60SC Type so conduit nipples are readily applicable... complete isolation of power lines, or total elimination of power line noise where line filters are used for screen room proficiency... use Triad precision engineered isolation types. Having four equal 115 volt windings, they are adaptable for isolation in 230 to 230 volt circuitry... 230 to 115 volt... 115 to 115 volt... at full rating For use as autoformer at all combinations of 460... 345... 230... 115 volts ... at twice isolation rating... conduit nipple mounting accommodates conduit fittings.

POWER LINE

ISOLATION / 50-60 cycle

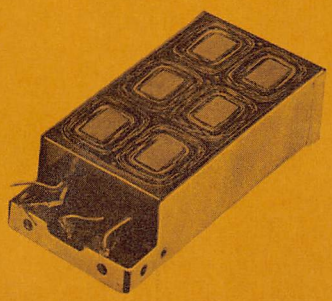
Type No.	Output Watts (VA)	Primary Volts	Secondary AC Volts ± 5%	Secondary AC Amps	RMS Test Voltage	Case Type	Connections	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
N-51X	35	115	115	.3	1500	X	Leads	–	88	1	2 3/32	3 1/16	2 1/8	3 1/8	–	1.7
N-68X	50	115–230§§§	115	.435	1500	X	Leads	–	88	1	2 3/32	3 1/16	2 1/8	3 1/8	–	1.7
N-53M	85	115	115	.74	1500	M	6′ Cord, Plug & Socket		112	1 1/2	3 1/2	2 31/32	3 1/2	2 1/4	2 3/8	4.7
N-54M	150	115	115	1.3	1500	M	"		125	2	3 7/8	3 3/32	3 7/8	2 1/2	3	7
N-73A	150	115	115–230§§§	.65	1500	A	Leads	2	125	2	3 7/8	3 3/32	3 7/8	2 1/2	3	7
N-74A	150	115	67.5–115§§§	1.3	1500	A	Leads	2	125	2	3 7/8	3 3/32	3 7/8	2 1/2	3	7
N-67A	150	115–230§§§	115	1.3	1500	A	Leads	2	125	2	3 7/8	3 3/32	3 7/8	2 1/2	3	7
N-55M	250	115	115	2.17	1500	M	6′ Cord, Plug & Socket	–	150	2 1/2	4 5/8	3 15/16	5	3	3 7/8	11
N-66A	250	115–230§§§	115	2.17	1500	A	Leads	2	150	2 1/4	4 5/8	3 15/16	4 3/4	3	3 5/8	11
N-57M	500	115	115	4.35	1500	M	6′ Cord, Plug & Socket	–	176	3 1/2	5 5/16	4 1/2	6 1/8	3 1/2	5 1/8	23.75
N-59M	1000	115	115	8.7	1500	M		–	176	5 1/4	5 5/16	4 1/2	7 7/8	3 1/2	6 7/8	34
N-56M	150	95–130 5V Steps	115	1.3	250	MM	Detachable 6′ Cord, Plug, Switch, Socket & Meter	–	150	1 1/8	4 5/8	3 15/16	5 5/8	3	4 1/4	7
N-52M	350	95–130 5V Steps	115	3.04	250	MM	"	–	150	3 1/2	4 5/8	3 15/16	7 3/4	3	6 5/8	17
N-469A	50	220–440§§§	115	.435	1500	A	Leads	1	100	7/8	3 3/32	2 31/32	2 1/2	2	1 3/4	2.3
N-470A	150	220–440§§§	115	1.3	2000	A	Leads	1	125	1 1/2	3 7/8	3 3/32	3 7/8	2 1/2	2 1/2	5.5
N-471A	300	220–440§§§	115	2.6	2000	A	Leads	1	150	2	4 5/8	3 15/16	4 1/2	3	3 5/8	10.25

UNIVERSAL ISOLATION / AUTOFORMER / VOLTAGE CONTROL / 50-60 cycle

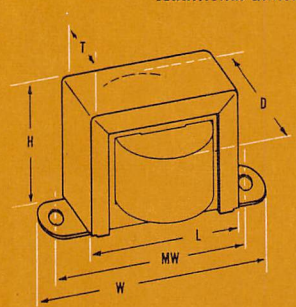
Type No.	Output Watts (VA) Isolation	Output Watts (VA) Autoformer	RMS Test Voltage	Case Type	Connections	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
N-64AC	500	1000	1500	AC	Leads	1 Conduit	176	2 1/4	5 5/16	4 1/2	4 7/8	3 1/2	3 7/8	15
N-62AC	1000	2000	1500	AC	"	1 Conduit	212	2 3/4	6 1/2	5 1/2	6	4 1/4	4	29.5
N-60SC	2000	4000	2500	SC	"	Knockouts	175	5 1/2	4 3/4	8 1/2	13 1/2	7 5/8	7 5/8	56

New Item. §§§ Split winding.

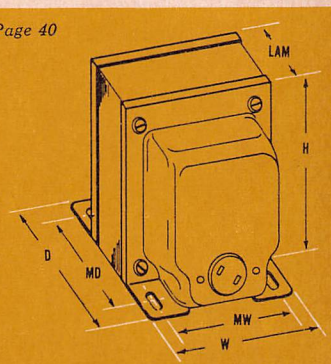
Additional dimension data Page 40



Cutaway of a Triad special design transformer.



X Case



M Case

POWER RECTIFIER OR LINE

Triad's exceptionally precise methods of design, development and manufacture continue to provide the characteristic precision which has come to be associated with every Triad Transformer. Hair fine tolerances are diligently adhered to. ■ Triad Stepdown Autoformers provide stepdown ratios from 230 volt to 115 volt operation, and incorporate all of the quality features available only from Triad. ■ For signaling and warning devices of all types, Triad's Signaling Units provide for performance and reliability at 4 . . . 8 . . . 12 . . . 16. . . 20 . . . 24 volt levels. ■ In Triad Instrument Power Units only do you find such effective isolation of circuits . . . such close regulation . . . such low external fields . . . such high insulation . . . such low temperature rise . . . such consistent absence of operational failure . . . such unconditional adherence to critical specifications.

STEPDOWN AUTOFORMERS / 50-60 cycle

Type No.	Output Watts (VA)	Primary Volts	Secondary Volts ± 5%	Secondary RMS Amps	RMS Test Voltage	Case Type	Connections	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
N-1X	50	230	115	.435	1500	X	Leads	–	88	⅞	2 9/32	3 1/16	2	3⅛	–	1.5
N-3M	85	230	115	.74	1500	M	6′ Cord & Plug & Socket	–	112	¾	3½	2 23/32	2¾	2¼	1⅝	3
N-4M	150	230	115	1.3	1500	M	"	–	112	1½	3½	2 23/32	3½	2¼	2⅜	4.7
N-5M	250	230	115	2.17	1500	M	"	–	125	2	3⅞	3 3/32	3⅞	2½	3	7
N-7M	600	230	115	5.22	1500	M	"	–	150	2½	4⅝	3 15/16	5	3	3⅞	12
N-9M	1250	230	115	10.85	1500	M	"	–	176	3½	5 5/16	4½	6⅛	3½	5⅛	24
N-11M	2000	230	115	17.4	1500	M	"	–	176	5¼	5 5/16	4½	7⅞	3½	6⅞	33.25
N-34X	150	0–95–105–115–125–135	115	1.3	250	X	Lugs	–	100	1	2 1/32	4	2¼	3 1/16	–	2.2
N-35M	350	95–130 (5V Steps)	115	3.04	1500	M	Detachable 6′ Cord, Plug, Switch & Socket	–	138	¾	4¼	3 1/32	3¼	2¾	2	4.2
N-50M	500	95–130 (5V Steps)	115	4.35	250	MM	Detachable 6′ Cord, Plug, Switch, Socket & Meter	–	150	1	4⅝	3 15/16	5¼	3	4⅛	7.25

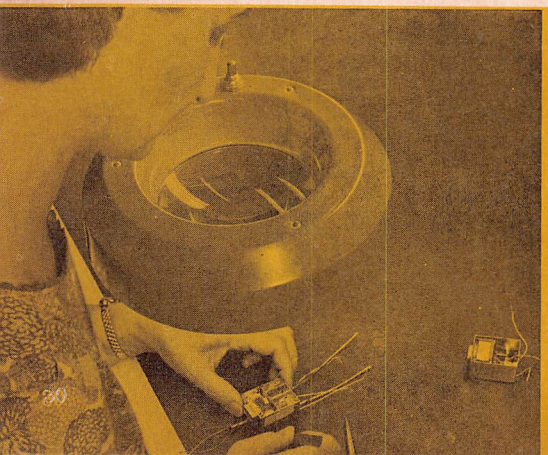
SIGNALING

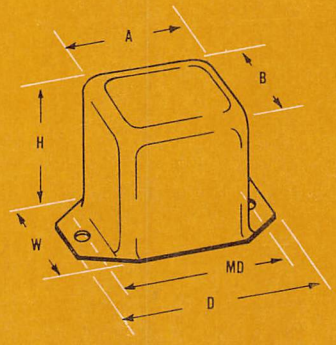
Type No.	Primary Volts	Secondary AC Volts	Amps	RMS Test Voltage	Case Type	Lamination Size	Lamination Stack	Connections	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
F-102X	115	4–8–12–16–20–24	2	1500	X	88	1	Leads	2 3/32	3 1/16	2½	3⅛		1.75
F-104U	115	4–8–12–16–20–24	4	1500	U	112	1	Leads	3½	2⅞	2 9/16	2¼	2 1/16	3.13

CATHODE RAY TUBE / primary 115 volt, 60 cycle

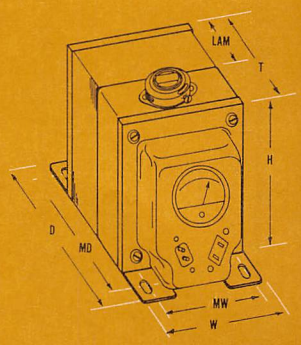
Type No.	Secondary AC Volts ± 5%	D.C. Ma. Cond. In	D.C. Ma. Choke In	Rectifier Filament Volts ± 5%	Rectifier Filament Amps	Other Filaments Volts ± 5%	Other Filaments Amps	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
R-41C	440–0–440– 1250	125 5	158 –	5 2.5∗ 2.5∗	3 1.75 1.75	6.3 5	.6 3	(2.5V & 6.3V)—3500 Others–1500	C	Lugs	138	2	3¼	4 3/16	3½	3 7/16	2¾	7.5
R-45C	400–0–400– 800	30 5	38 –	5∗ 5∗	2 2	6.3 6.3 CT 6.3	.6 3 1	Pri. & 6.3 CT 1500 Others–3000	C	Lugs	125	1½	2⅝	3¾	3⅛	3⅛	2½	4.5
R-43C	1600	3	–			0–2.5–5–6.3 0–2.5–5–6.3	1 3	Pri.—1500 Others—4200	C	Lugs	100	1½	2⅜	3 1/16	2 1/16	2½	2	3.5
R-83A♦	400–0–400– 650	70 3	– –	1.25✠	.3	6.3 CT 6.3	3.5 .6	6.3V.6A–3000 Others–1500	A	2–Sides	112	1¾	3½	2 31/32	3¾	2¼	2⅝	5
R-84K♦♦	–	–	–			6.3	.6	3500	K	2–Sides	–	–	2¾	2¼	2¾	2⅜	1½	1.5
R-85A♦♦♦	1825 180 117	3 475 Rms 200 Rms	– – –	1.25	.2	6.3 CT	5.65	1500	A	2–Sides	125	2¾	3⅞	3 3/32	4⅝	2½	3¾	7.5

New Item. ♦ Direct Replacement for Power Transformer in Model O–12 Heathkit Scope. ♦♦ CRT Filament Transformer for Heathkit Model OP–1 Scope.
♦♦♦CRT Transformer for Heathkit Model OP–1 Scope. If complete power transformer is needed, both R-84K & R-85A must be used. ‡ Static shield.
∗ Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — OR connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.
✠ 2 ohm 2W resistor in series with filament when IV2 is used.





Small K Case



MM Case

Triad Smoothing Filter Reactors have an inductance tolerance of minus 20 percent, plus 50 percent. Triad performance, longevity, and superior precision design techniques are built into each unit. For complete dependability in operation . . . always specify Triad.

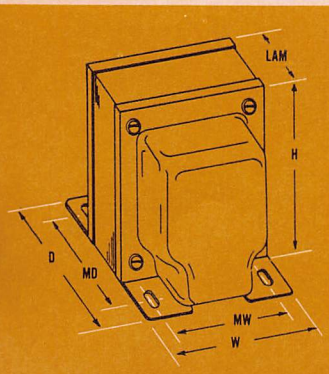
CHOKE

SMOOTHING FILTER REACTOR

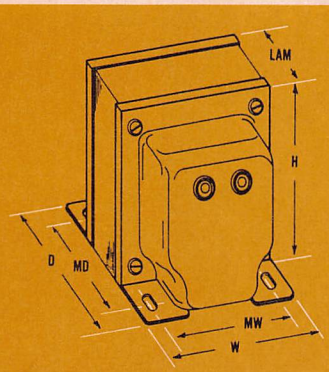
Type No.	Current D.C. MA.	Inductance†† Henries	Resistance Ohms	RMS Test Voltage	Case Type	Connections	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
C-2X	15	2	70	1500	X	Leads	–	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
C-30X	15	50	3500	1500	X	Leads	–	50	5/8	1 3/8	2 3/8	1 1/2	2		.42
C-1X	20	15	1000	1000	X	Leads	–	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
C-3X	50	10	500	1500	X	Leads	–	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.6
C-4X	50	4	360	1500	X	Leads	–	50	1/2	1 3/8	2 3/8	1 3/8	2		.35
C-6X	65	5	330	1500	X	Leads	–	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.6
C-5X	75	12	390	1000	X	Leads	–	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
C-8X	75	7	240	1500	X	Leads	–	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
C-7X	90	10	270	1000	X	Leads	–	75	1	1 15/16	3 5/16	2	2 13/16		1.3
C-9X	90	4	100	1500	X	Leads	–	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
C-11X	110	6	160	1500	X	Leads	–	88	7/8	2 9/32	3 1/16	2	3 1/8		1.5
C-10X	125	9	250	1000	X	Leads	–	88	7/8	2 9/32	3 1/16	2	3 1/8		1.6
C-12A	160	6	165	1500	A	Leads	1	88	1	2 25/32	2 11/32	2 1/2	1 3/4	1 3/4	2
C-12X	160	6	165	1500	X	Leads	–	88	1	2 9/32	3 1/16	2 1/8	3 1/8		1.75
C-13X	160	3	75	1500	X	Leads	–	88	1	2 9/32	3 1/16	2 1/8	3 1/8		1.75
C-14A	200	6	150	1500	A	Leads	1	100	1	3 3/32	2 21/32	2 5/8	2	1 7/8	2.5
C-14X	200	6	150	1500	X	Leads	–	100	1	2 13/32	4	2 1/4	3 9/16		2.3
C-16A	200	10	150	2500	A	Leads	1	112	1 1/2	3 1/2	2 31/32	3 1/2	2 1/4	2 3/8	4.5
C-21X	225	1.5	65	1500	X	Leads	–	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		2.1
C-24X	240	1	50	1500	X	Leads	–	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.75
C-15A	250	4	100	1500	A	Leads	1	100	1	3 3/32	2 21/32	2 5/8	2	1 7/8	2.65
C-15X	250	4	100	1500	X	Leads	–	100	1	2 13/32	4	2 1/4	3 9/16		2.3
C-23X	260	1.2	45	1500	X	Leads	–	75	1	1 15/16	3 5/16	2	2 13/16		1.75
C-27X	290	.7	30	1500	X	Leads	–	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.75
C-36X	300	.5	30	1500	X	Leads	–	50	5/8	1 3/8	2 3/8	1 1/2	2		.5
C-17X	300	1.5	40	1500	X	Leads	–	88	7/8	2 9/32	3 1/16	2	3 1/8		1.6
C-18A	300	8	90	2500	A	Leads	1	125	1 3/4	3 7/8	3 3/32	3 5/8	2 1/2	2 3/4	6.3
C-19A	300	10	105	3000	A	Leads	1	138	1 3/4	4 1/4	3 13/32	4 1/8	2 3/4	3	7.75
C-25A	310	2.6	60	1500	A	Leads	1	100	1 1/2	3 3/32	2 21/32	3 1/8	2	2 3/8	3.6
C-42AL	350	8	105	5000	AL	Leads	2-Side	150	1 1/2	4 5/8	3 15/16	4	3	2 7/8	8
C-34X	350	.6	35	1500	X	Leads	–	63	5/8	1 5/8	2 13/16	1 1/2	2 3/4		.6
C-28X	350	1	35	1500	X	Leads	–	75	1	1 15/16	3 5/16	2	2 13/16		1.35
C-29X	375	1.5	50	1500	X	Leads	–	88	7/8	2 9/32	3 1/16	2	3 1/8		1.6
C-20A	400	6	60	3000	A	Leads	1	150	2	4 5/8	3 15/16	4 1/2	3	3 3/8	10.5
C-22A	500	10	65	3000	A	Leads	1	176	2 1/2	5 5/16	4 1/2	5 1/8	3 1/2	4 1/8	16.5
C-45AL	500	10	65	5000	AL	Leads	2-Side	176	2 1/2	5 5/16	4 1/2	5 1/8	3 1/2	4 1/8	17.75
C-40X	600	.32	10	1500	X	Leads	–	75	1	1 15/16	3 5/16	2	2 13/16		1.3
C-47U	1A/2A	.3/.075§§§	3/.75	1500	U	Leads	–	112	1 5/8	3 1/2	2 7/8	3 5/16	2 1/4	2 11/16	4.6
C-48U	2.5A/5A	.08/.02§§§	.61/.155	1500	U	Leads	–	125	2	3 13/16	3 3/16	3 5/16	2 1/2	3 1/16	6.75
C-49U	5A/10A	.032/.008§§§	.19/.05	1500	U	Leads	–	138	2	4 1/4	3 1/2	3 5/16	2 3/4	3 1/16	8
C-80U	20A/40A	.024/.006§§§	.1/.025	1500	U	Lugs	–	176	3 1/4	5 5/16	4 5/16	5 1/2	2 3/4	4 1/2	21.25
C-26X	100	.2 to 1.5 Tapped	95	2500	X	Lugs	–	75	1	1 15/16	3 5/16	2	2 13/16		1.25
C-43X	300	.05 to 1 Tapped	40	5000	X	Lugs	–	100	1	2 13/32	4	2 1/4	3 9/16		2

†† Inductance tolerance—20% + 50%. §§§ Split winding.

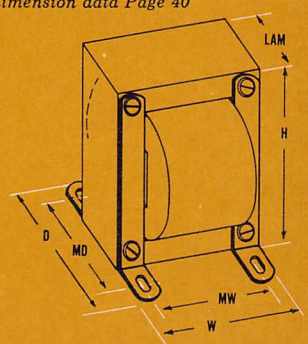
Additional dimension data Page 40



A Case



AL Case



U Case

CHOKE

FILAMENT

Triad Swinging Filter Reactors provide a swinging input reactance which substantially improves regulation of high voltage power supplies . . . prevents DC voltage from rising to maximum of peak AC rectifier input . . . inductance reduction with increase in DC reduces phase shift.

Triad Filament Transformers offer precision and reliability for low temperature rise under continuous operating conditions . . . they have an enviable record for long life . . . light weight . . . small size . . . have superior regulation characteristics. Climatite vacuum impregnated coil and core eliminates lamination vibration. Voltages shown are at full rated load.

SWINGING FILTER REACTORS

Type No.	Current D.C. MA.	Inductance Henries††	Resistance Ohms	RMS Test Voltage	Case Type	Connections	Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
C-31A	20/200	25/5	150	2500	A	Leads	1	112	1½	3½	2 31/32	3½	2¼	2⅜	4.6
C-33A	30/300	25/5	105	3000	A	Leads	1	138	1¾	4¼	3 15/32	4⅛	2¾	3	7.6
C-32AL	35/350	20/4	105	5000	AL	Leads	2-Side	150	1½	4⅝	3 15/16	4	3	2⅞	8
C-35A	40/400	20/4	65	3000	A	Leads	1	150	2	4⅝	3 15/16	4½	3	3⅜	10.5
C-39A	50/500	25/5	65	3000	A	Leads	1	176	2½	5 5/16	4½	5⅛	3½	4⅛	16.75
C-38AL	50/500	25/5	65	5000	AL	Leads	2-Side	176	2½	5 5/16	4½	5⅛	3½	4⅛	17

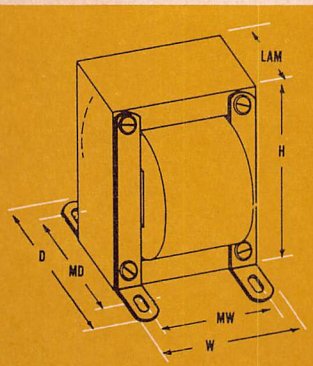
FILAMENT / multiple secondary / primary 115 volt, 60 cycle

Type No.	Secondary Volts	Secondary Amps	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
F-27U	10 CT 2.5 CT	10 10	1500 7500	U	Leads	138	1½	4⅜	3½	3 1/16	2¼	2 1/16	6.2
F-30A	6.3 CT 5 CT	8 3	1500	A	2-Leads	112	1¼	3½	2 31/32	3¼	2¼	2⅛	4
F-32A	6.3 CT* 6.3 CT*	3 3	1500	A	1-Leads	100	1	3 3/32	2 31/32	2⅝	2	1⅞	2.5
F-34A	6.3 CT* 6.3* 6.3* 6.3*	1.75 1.75 1.75 1.75	1500	A	2-Leads	100	1⅜	3 3/32	2 31/32	3	2	2¼	3.3
F-36A	6.3 CT* 6.3* 6.3* 6.3*	3.5 3.5 3.5 3.5	1500	A	1-Leads	125	1⅜	3⅞	3 3/32	3¼	2½	2⅜	5
F-38A	6.3 CT* 6.3* 6.3 5 CT 5	5 5 1 2 4	1500	A	2-Leads	125	1⅜	3⅞	3 3/32	3½	2½	2⅜	6
F-42A	12.6 CT* 12.6*	2.5 2.5	1500	A	1-Leads	112	1⅛	3½	3 31/32	3⅛	2¼	2	3.7
F-83A‡‡	12.6 CT* 12.6*	5 5	Pri. 1500 Sec. 2500	A	2-Leads	125	1⅜	3½	2 31/32	3⅛	2½	2⅜	6

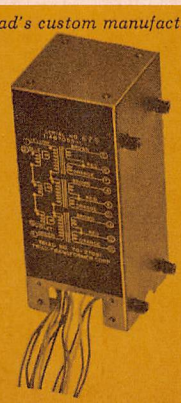
* Windings may be connected in series to obtain their combined voltage when properly phased, current will be equal to the current of the lowest winding — or connected in parallel to obtain the combined current. Example: 2 6.3V. windings @ 2A. in series would be 12.6V. @ 2A. or 2 6.3V. windings @ 2A. in parallel would be 6.3V. @ 4A.

CT For Center Tap. ‡‡ Tapped primary 105–115–125 †† Inductance tolerance—20% + 50%.

Triad's custom manufacturing to special requirements is available.



U Case

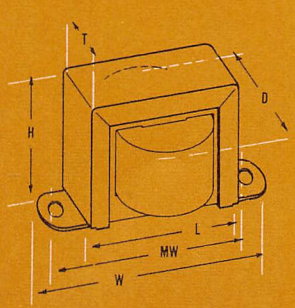


FILAMENT / single secondary / primary 115 volt, 60 cycle

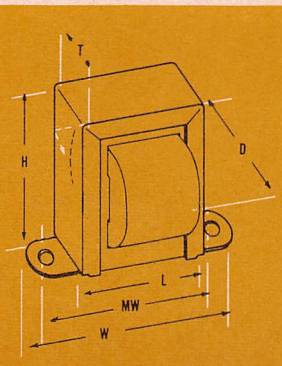
Type No.	Secondary Volts	Secondary Amps	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
F-1X	2.5 CT	3	1500	X	Leads	63	3/4	1 5/8	2 13/16	1 5/8	2 3/8		.68
F-72Z	2.5 CT	5	Pri. 1500 Sec. 7500	Z	Pri.Leads Sec.–Lugs	88	1	2 23/32	3 1/8	2 1/8	2 13/16		1.7
F-6X	2.5 CT	6	Pri. 1500 Sec. 2500	X	Leads	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
F-3X	2.5 CT	10	Pri. 1500 Sec. 3000	X	Leads	88	1	2 3/32	3 3/4	2 1/8	3 1/8		1.7
F-5U	2.5 CT	10	Pri. 1500 Sec. 7500	U	Leads	100	7/8	3 1/16	2 1/2	2 7/16	2	1 7/8	2.2
F-71U	2.5 CT	10	Pri. 1500 Sec. 10,000	U	Pri. Leads Sec. Leads	112	1	3 7/16	2 13/16	2 5/16	2 1/4	2 1/8	2.6
F-7X	5 CT	3	1500	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.3
F-8X	5 CT	6	1500	X	Leads	88	1	2 3/32	3 3/4	2 1/8	3 1/8		1.7
F-12X	5 CT	8	2500	X	Leads	100	1	2 13/32	4	2 1/8	3 5/16		2.5
F-9A	5.2 CT	13	1500	A	1–Leads	112	1 3/8	3 1/2	2 31/32	3 3/8	2 1/4	2 1/4	4.25
F-9U	5.2 CT	13	1500	U	Leads	112	1 3/8	3 7/16	2 13/16	2 15/16	2 1/4	2 1/2	4
F-15U	5 CT	15	Pri. 1500 Sec. 3000	U	Leads Lugs	112	1 1/8	3 1/2	2 7/8	2 11/16	2 1/4	2 5/16	3.25
F-10U	5 CT	14	Pri. 1500 Sec. 10,000	U	Leads	125	1 1/2	3 13/16	3 5/16	3 1/16	2 1/2	2 5/16	4.75
F-11U	5.2 CT	24	1500	U	Leads	125	2	3 13/16	3 5/16	3 7/16	2 1/2	3 1/16	6.75
F-13X	6.3	.6	1500	X	Leads	50	1/2	1 3/8	2 3/8	1 3/8	2		.37
R-84K	6.3‡	.6	Pri. 1500 Sec. 3500	K	2–Leads	–	–	2 3/4	2 1/4	2 11/16	1 1/2	2 3/8	1.5
F-14X	6.3 CT	1.2	Pri. 1500 Sec. 2500	X	Leads	63	3/4	1 5/8	2 13/16	1 5/8	2 3/8		.7
F-52X	6.3‡	1.2	Pri. 1500 Sec. 5000	X	Leads	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
F-51X	6.3–5‡	2	Pri. 1500 Sec. 5000	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.25
F-53X	6.3	4	Pri. 1500 Sec. 5000	X	Leads	100	1	2 13/32	4	2 1/4	3 5/16		2.1
F-43X	6.3	4	1500	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.25
F-16X	6.3 CT	3	Pri. 1500 Sec. 2500	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.3
F-18A	6.3 CT	6	1500	A	1–Leads	100	1	3 3/32	2 21/32	2 5/8	2	1 7/8	2.5
F-18X	6.3 CT	6	1500	X	Leads	100	1	2 13/32	4	2 1/4	3 5/16		2.3
F-19X♮	6.3 CT–6 CT	6	2000	X	Leads	100	1	2 13/32	4	2 1/4	3 5/16		2.3
F-21A	6.3 CT	10	1500	A	1–Leads	112	1 1/8	3 1/2	2 31/32	3 1/8	2 1/4	2	3.8
F-20U♮	6.3 CT–6 CT	11	Pri. 1500 Sec. 3000	U	Leads	112	1 3/8	3 1/2	2 7/8	2 15/16	2 1/4	2 7/16	4
F-17U	6.3 CT	15	Pri. 2000 Sec. 10,000 Lo-Cap.	U	Pri. Leads Sec. Leads	138	1 1/4	4 1/4	3 1/2	3 5/16	2 3/4	2 13/16	7.5
F-22A	6.3 CT	20	2000	A	2–Leads	125	2	3 7/8	3 3/32	3 7/8	2 1/2	3	7
F-24U♮	7.5 CT–6.3 CT	8	Pri. 1500 Sec. 3000	U	Leads	112	1 1/4	3 1/2	2 7/8	2 13/16	2 1/4	2 5/16	3.65
F-28U♮	7.5 CT–6.3 CT	25	Pri. 1500 Sec. 3000	U	Leads & Lugs	150	2	4 5/8	3 13/16	3 7/16	3	3 1/16	7.5
F-29U♮	10 CT	7	1500	U	Leads	112	1 3/8	3 1/2	2 7/8	2 15/16	2 1/4	2 5/16	3.9
F-29U♮	12 CT–11 CT 10 CT	11	Pri. 1500 Sec. 3000	U	Leads	138	1 1/2	4 3/8	3 1/2	3 1/16	2 3/4	2 5/16	6.5
F-25X	12.6 CT	1.5	1500	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.3
F-44X	12.6 CT	2	1500	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.25
F-26X	12.6 CT	2.5	1500	X	Leads	88	7/8	2 3/32	3 11/16	2	3 1/8		1.55
F-40X	26.8 CT	1	1500	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.3
F-41X	25.2 CT	2	1500	X	Leads	100	1	2 13/32	4	2 1/4	3 5/16		2.2
F-50X‡	Sec. 6.3–5 Pri. 6.3–5 Special Fil. Line Matching Transformer		Pri. 500 Sec. 5000	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.2
F-45X	24 CT	1	1500	X	Leads	75	1	1 15/16	3 5/16	2	2 13/16		1.3

New Item. **CT** For Center Tap. ‡ Static shield. ♮ Tapped primary to produce lower voltages.

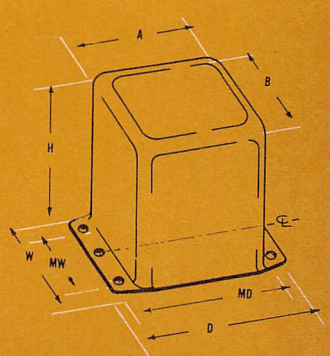
Additional dimension data Page 40



X Case



Z Case



K Case

AUDIO

Triad Audio Output Transformers have wide acceptance for exceptional high quality performance and construction in the medium price range. Of baked vacuum varnished structure, high reliability and excellent frequency response with high open circuit inductance and low leakage, these units are designed to offer maximum performance in minimum required mounting space. High fidelity high level units have frequency response linear within 3 db over the rated frequency response shown.

With good feedback circuitry in well regulated supplies, frequency response given will be exceeded. Quality controlled core structure... grain oriented steel... realistically priced... select Triad Output Units... for high fidelity... public address systems... amateur radio... all audio applications.

HIGH FIDELITY OUTPUT / tube to line or voice coil

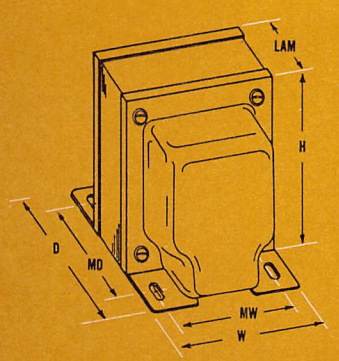
Type No.	Output Watts	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Pri-mary	D.C. Resistance Sec-ondary	Primary Ma. D.C. Per Side	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Case Type	Connec-tions or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
S-34X	7.5	Crowhurst Circuit Using 2 units	4000 CT	32/16/8	170	1.25	50	11.2:1	30–20,000	1500	X	Leads	88	7/8	2 3/32	3 1/16	2	3 1/8		1.5
S-31A	15	P.P. 6V6's, EL84's, etc. to Speaker	8000 CT	16/8/4	470	.33	40	22.2:1	30–20,000	1500	A	1	100	1 3/4	3 3/32	2 31/32	3 3/8	2	2 5/8	3.8
S-32A	15	P.P. 6V6's, EL84's, etc. to Line	8000 CT	500/250/125	455	28.2	40	4:1	30–15,000	1500	A	1	100	1 3/4	3 3/32	2 31/32	3 3/8	2	2 5/8	3.8
S-142A	15	P.P. 6V6's, EL84's, etc. to Speaker	8000 CT ■	16/8/4	450	.76	50	22.2:1	20–20,000	1500	A	2	100	1 3/4	3 3/32	2 31/32	3 3/8	2	2 5/8	3.75
S-35A	20	P.P. 6L6's, etc. to Speaker	5000 CT	16/8/4	320	.8	80	17.6:1	20–20,000	1500	A	1	100	2	3 3/32	2 31/32	3 5/8	2	2 7/8	4.3
S-36A	20	P.P. 6L6's, etc. to Line	5000 CT	500/250/125	310	30	80	3.16:1	20–20,000	1500	A	1	100	2	3 3/32	2 31/32	3 5/8	2	2 7/8	4.25
S-144A	25	P.P. 7189A or Equiv. to Speaker	8000 CT ■	16/8/4	240	.58	100	22.2:1	10–50,000	1500	A	2	112	2 1/4	3 1/2	2 31/32	4 1/4	2 1/4	3 1/8	6
S-146A	25	P.P. 5881, 6L6's, etc. to Speaker	6600 CT ■	16/8/4	250	.715	80	20:1	10–50,000	Pri. 2000 Sec. 1500	A	2	112	2 1/4	3 1/2	2 31/32	4 1/4	2 1/4	3 1/8	5.75
S-148A	25	P.P. KT66 or Equiv. to Speaker	10,000 CT ■	16/8/4	257	.7	80	24.8:1	20–20,000	1500	A	2	112	2 1/4	3 1/2	2 31/32	4 1/4	2 1/4	3 1/8	6
☞ S-156A	30	5881, KT-66, 6L6, etc.	6600 CT or 1650 CT ■	16/8/4	360	.96	80	20:1	20–20,000	2000	A	2	112	1 3/4	3 1/2	2 31/32	3 3/4	2 1/4	2 5/8	5
☞ S-149A	50	P.P. Par. EL84's or Equiv. to Speaker	3300 CT ■	16/8/4	126	.6	130	13.85:1	20–75,000	2000	A	2	150	2	4 5/8	3 15/16	4 1/2	3	3 3/8	8
S-42A	50	P.P. Par. 6L6's Class A to Speaker	4500 CT	16/8/4	147	.56	140	16.9:1	30–15,000	1500	A	1	138	2 1/4	4 1/4	3 13/32	4 5/8	2 3/4	3 1/2	8.25
S-152A	65	P.P. 6550's or Equiv. to Speaker	4000 CT ■	16/8/4	138	.47	200	16.05:1	20–20,000	2000	A	2	138	2 1/4	4 1/4	3 13/32	4 5/8	2 3/4	3 1/2	9.75
☞ S-154A	70	P.P. KT-66 or 6550 to Speaker	4000 CT ■	16/8/4	140(t)	.5(t)	210	16.05:1	15–85,000	2000	A	2	150	2 1/2	4 5/8	3 15/16	5	3	3 7/8	12.5
☞ S-158A	100	6550, KT-88, etc.	4500 CT or 1000 CT ■	16/8/4	160	.52	120	15.6:1	20–20,000	2500	A	2	176	2 1/2	5 9/16	4 7/16	5 1/8	3 1/2	4 1/8	14.75
SR-45Z	10	70 Volt Line Autoformer	4000/2000/1000/500	16/8/4	255	.77	–	15.7:1	20–20,000	1000	Z	Leads	88	1	2 23/32	3 1/8	2 1/8	2 13/16		1.75
S-46A	20	70 Volt Line Autoformer	2000/1000 500/250	16/8/4	88	.82	–	11:1	30–15,000	1000	A	1	100	1 3/4	3 3/32	2 31/32	3 3/8	2	2 5/8	4

OUTPUT / tube to voice coil & line

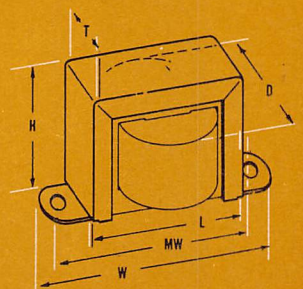
Type No.	Output Watts	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Pri-mary	D.C. Resistance Sec-ondary	Primary Ma. D.C. Per Side	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Case Type	Connec-tions or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
S-27A	8	Single Plate to Line or Speaker	2500	500/16/8/4	260	34	80	2.22:1	40–12,000	1000	A	1	88	7/8	2 25/32	2 11/32	2 3/8	1 3/4	1 5/8	1.75
S-28X	5	Single Plate to Line or Speaker	7500	500/16/8/4	595	35.8	40	4.05:1	50–12,000	1000	X	Leads & Lugs	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
S-29X	5	Single Plate to Line or Speaker	5000	500/16/8/4	660	56	45	3.56:1	50–12,000	1000	X	Leads & Lugs	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
S-22A	15	P.P. Plates to Line or Speaker	5000 CT	500/16/8/4	424	48.3	50	2.69:1	25–15,000	1500	A	1	88	1 1/8	2 25/32	2 11/32	2 5/8	1 3/4	1 7/8	2.5
S-24A	15	P.P. Plates to Line or Speaker	8000 CT	500/16/8/4	675	39.5	40	3.98:1	20–15,000	1500	A	1	88	1 1/8	2 25/32	2 11/32	2 5/8	1 3/4	1 7/8	2.5
S-60A	35	P.P. Plates to Line or Speaker	6600 CT	500/250/16/8/4	118.5	9.6	150	3.65:1	30–20,000	2000	A	2	125	1 1/4	3 7/8	3 3/32	3 1/8	2 1/2	2 1/4	4

☞ New Item. ■ Williamson type circuit may be used. Taps on primary for proper screen operation. **CT** For Center Tap.

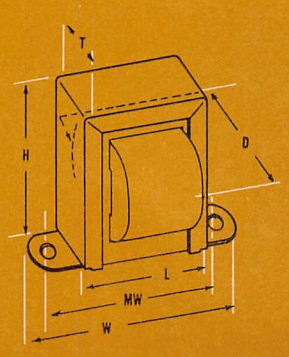
Additional dimension data Page 40



A-Case



X Case



Z Case

Triad transformers for transmitter audio circuitry provide use tested, universally accepted, high reliability units at realistic costs. Triad leads the field in the development of modulator designs for efficiency and flexibility.

DRIVER

Type No.	Power Output Watts	Application	Matching Impedance Primary	Matching Impedance Secondary	Overall Turns Ratio	Freq. Resp. ± 3 DB	RMS Test Volts	Case Type	Connections	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
A-81X	.5	Driver-Plate to Single or P. P. Grids	15,000 15 MA D.C.	8500 CT	1.33:1	200–20,000	1000	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
A-83X	2.5	Driver-Plate to Single or P. P. Grids	7000 40 MA D.C.	15,800 CT	1:1.5	70–7000	1000	X	Leads	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.6
A-85X	5	Driver-Plate to Class B P. P. Grids	7000 40 MA D.C.	4000 CT	1.33:1	50–10,000	1000	X	Leads	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
A-89A	15	Univ. Driver-P. P. Plates to AB or B Grids	4K/8K 100 MA D.C. Per Side	4.4K/8.8K Split Winding	1:1.1	50–10,000	1500	A	Leads	100	1	3 3/32	2 21/32	2 5/8	2	1 7/8	3.5
A-91A▲	30	Univ. Driver-P. P. Plates to AB or B Grids	4K/8K 160 MA D.C. Per Side	4.3K/8.6K Split Winding	1:1.065	50–10,000	1500	A	Leads	112	1 3/8	3 1/2	2 31/32	3 3/8	2 1/4	2 1/4	6
TY-61X	.5	Transistor Driver	100 100 MA D.C.	100 CT	1:1	50–10,000	1000	X	Leads	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.6

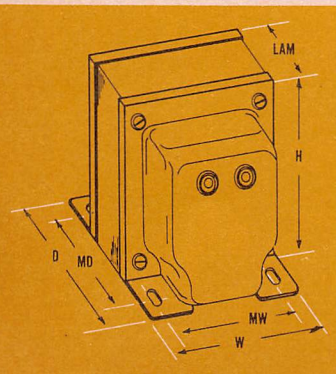
MODULATION / tube to rf load

Type No.	Output Watts	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Sec. D.C. MA	Over-All Turns Ratio	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Maximum Unit Wt. Lbs.
M-1X	5	10,000 CT 5 MA Unbal.	5K/8K/ 10K	710	965	50	1:1	1000	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.45
TY-65Z	10	32 CT 575 MA	3K/4K/ 6K/	2	275	100	1:13.7	1500	Z	Leads	75	1	2 5/16	2 7/8	2	2 3/8		1.3
M-4Z	10	5000 Autoformer	6750 4 (VC)	3600	1.9	100 Total	1:1.6	2000	Z	Leads	63	3/4	1 15/16	2 3/8	1 5/8	2		.67
M-5Z	20	5000 Autoformer	6750 4 (VC)	268	1	165 Total	1:1.6	2000	Z	Leads	88	1	2 23/32	3 1/8	2 1/8	2 13/16		1.8
M-3X	20	10,000 CT 10 MA Unbal.	3K/5K/8K	523	471	100	1.11:1	1500	X	Leads	88	7/8	2 5/32	3 1/16	2	3 1/8		1.6
☛ M-6X	20	10,000 CT 10 MA Unbal.	3K/5K/8K 4 (VC)	523	471	100	1.11:1	1500	X	Leads	88	7/8	2 5/32	3 1/16	2	3 1/8		1.6
M-15A	30	4K to 20K Universal	4K to 20K	212	248	150	1:1.9	1500	A	Leads–2	112	1 1/4	3 1/2	2 31/32	3 1/4	2 1/4	2 1/8	3
TY-66A	40	6 CT 5A	3K/4K/6K	.16	81	200	1:31.7	3000	A	Leads–2	125	1 1/4	3 7/8	3 9/32	3 1/8	2 1/2	2 1/4	4.5
M-7AL	60	4250 CT	3K/5K/8K	90	120	200	1:1.37	3500	AL	Leads–2◯	138	1 1/2	4 1/4	3 13/32	3 7/8	2 3/4	2 3/4	6.5
M-16AL▲	60	4K to 20K Universal	4K to 20K	180	225	180	1:1.19	3000	AL	Leads–2◯	125	1 1/2	3 7/8	3 9/32	3 3/8	2 1/2	2 1/2	5.5
M-8AL▲	80	4K to 20K Universal	4K to 20K	152	181	200	1:1.19	4000	AL	Leads–2◯	138	2	4 1/4	3 13/32	4 3/8	2 3/4	3 1/4	8
M-12AL	125	4K to 20K Universal	4K to 20K	91	103	300	1:1.19	4000	AL	Leads–2◯	150	2 1/4	4 5/8	3 15/16	4 3/4	3	3 5/8	12

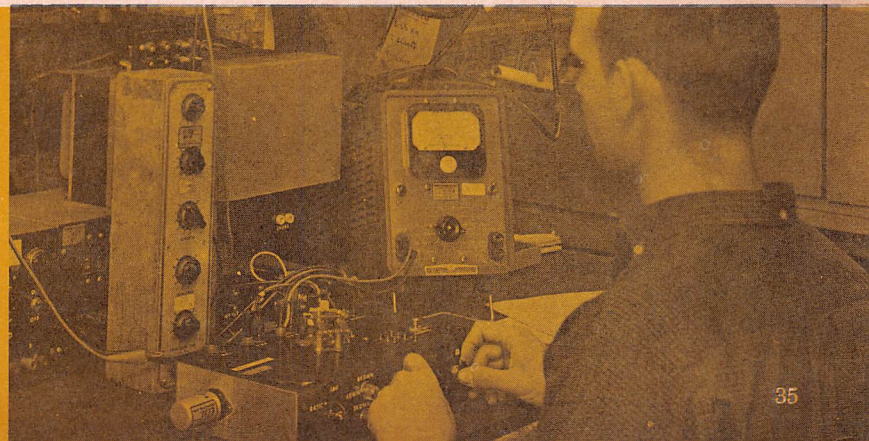
SPECIAL TRANSCEIVER / voice frequencies

Type No.	Output Watts	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	Freq. Resp. ± 3 DB	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
A-21X	.75	Mike or Plate to Grid (2 Primaries)	100 10,000	100,000	3 340	1300	1:31.5 1:3	200–20,000	500	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
A-23X	1	Tube to Line or Phones (2 Secondaries)	10,000	2000 50	675	300 5.1	2.26:1 14.1:1	200–20,000	1000	X	Leads	50	1/2	1 3/8	2 3/8	1 3/8	2		.45

☛ New Item ▲ Discontinued item available until stock depleted. ◯ Plate leads out side of case. **CT** For Center Tap.



AL Case



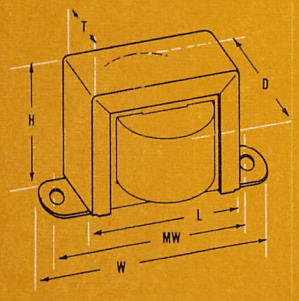
AUDIO

Triad Replacement Output Transformers furnish a wide range of size and mounting characteristics . . . specifically engineered for mounting in precise location in chassis. Climatite treated . . . manufactured to exacting quality standards of more costly types . . . progressively designed for advanced circuitry and audio tubes . . . total complete coverage over impedance and wattage ranges . . . Triad units provide finest response in minimum space . . . and outlive all others.

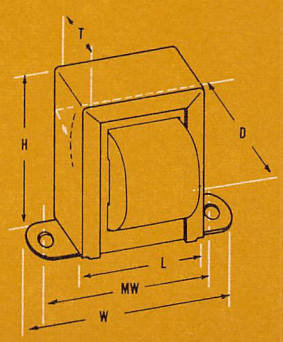
REPLACEMENT OUTPUT / single tube to standard voice coil/3–4 ohms

Type No.	Output Watts	Primary D.C. MA	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	RMS Test Voltage	Case Type	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mtg. MW	Max. Unit Wt. Lbs.
S-40X	.25	5.5	14,000	3–4	1380	.63	65.8:1	500	X	24–25	1/4	13/16	1 5/8	1	1 3/8	.08
S-37X	.25	4	25,000	3–4	2350	.63	88.4:1	500	X	24–25	1/4	13/16	1 5/8	1	1 3/8	.08
S-20X	2–3	50	2000	3–4	97	.5	22.4:1	1500	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-20Z	2–3	50	2000	3–4	97	.5	22.4:1	1500	Z	38	3/8	1 7/16	1 13/16	1 1/2	1 1/2	.21
S-12X	2–3	50	2500	3–4	138	.52	26.8:1	1000	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-12Z	2–3	50	2500	3–4	138	.52	26.8:1	1000	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-16X	2–3	50	3000/250	3–4	207	.31	27.3:1	1000	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-14Z	2–3	50	4000	3–4	332	.31	35:1	1500	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-6X	2–3	35	5000	3–4	440	.42	39:1	1000	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-6Z	2–3	35	5000	3–4	440	.42	39:1	1000	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-48X	2–3	35	6500	3–4	540	.31	45:1	1500	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-48Z	2–3	35	6500	3–4	540	.31	45:1	1500	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-8X	2–3	30	8000	3–4	477	.34	48:1	1000	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-8Z	2–3	30	8000	3–4	477	.34	48:1	1000	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-11X	2–3	30	10,000	3–4	670	.32	53.7:1	1000	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-11Z	2–3	30	10,000	3–4	670	.32	53.7:1	1000	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-38X	2–3	15	16,000	3–4	1420	.31	71:1	1500	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-38Z	2–3	15	16,000	3–4	1420	.31	71:1	1500	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-13X	2–3	10	25,000	3–4	1780	.36	84.6:1	1000	X	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	.21
S-13Z	2–3	10	25,000	3–4	1780	.36	84.6:1	1000	Z	38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	.21
S-2X	3–5	55	2000	3–4	150	.5	23.8:1	1000	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.45
S-1X	3–5	60	2500	3–4	150	.5	27:1	1000	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.45
S-30X	3–5	60	3000	3–4	187	.5	30.5:1	1000	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.45
S-41X	3–5	50	4000	3–4	300	.34	35.4:1	1500	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.45
S-41Z	3–5	50	4000	3–4	300	.34	35.4:1	1500	Z	50	1/2	1 11/16	2	1 3/8	1 23/32	.45
S-3X	3–5	40	5000	3–4	495	.5	40:1	1000	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.45
S-49X	3–5	35	6500	3–4	487	.34	44.5:1	1500	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.45
S-7X	3–5	30	7500	3–4	740	.53	46.6:1	1000	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.45
S-17X	3–5	30	10,000	3–4	600	.38	53.3:1	2000	X	50	1/2	1 3/8	2 3/8	1 3/8	2	.5
S-50X	4–6	60	2500	3–4	117	.32	24.9:1	1500	X	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8	.6
S-67X	4–6	60	3200	3–4	155	.35	27.9:1	1500	X	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8	.6
S-18X	4–6	45	8000	3–4	675	.35	49.3:1	1500	X	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8	.6
S-18Z	4–6	45	8000	3–4	675	.35	49.3:1	1500	Z	63	5/8	1 15/16	2 3/8	1 1/2	2	.6
S-10X	4–6	45	10,000	3–4	920	.34	55:1	1500	X	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8	.6
S-4X	5–8	70	3000	3–4	130	.26	30.7:1	1000	X	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16	1
S-5X	5–8	50	5000	3–4	283	.275	39.2:1	1000	X	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16	1
S-5Z	5–8	50	5000	3–4	283	.275	39.2:1	1000	Z	75	3/4	2 5/16	2 7/8	1 3/4	2 3/4	1
S-9X	5–8	50	7500	3–4	635	.17	46.7:1	1000	X	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16	1
S-9Z	5–8	50	7500	3–4	635	.17	46.7:1	1000	Z	75	3/4	2 5/16	2 7/8	1 3/4	2 3/8	1

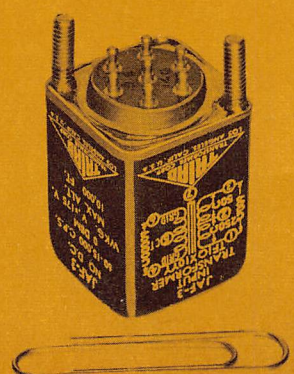
Additional dimension data Page 40



X Case



Z Case



Industry leader in the replacement field, Triad's constant research and critical quality control provide complete coverage required for today's expanding tube and circuitry developments. Finest overall frequency response . . . minimum overall size . . . greatest life expectance . . . ease of mounting . . . exact location replacement in chassis . . . widest range of types and power ratings . . . economical costs . . . Triad is the logical entertainment replacement. Ask your distributor about the TV–62 Replacement Catalog.

REPLACEMENT PUSH-PULL OUTPUT / push-pull tubes to voice coil / 3-4 ohms

Type No.	Output Watts	Primary D.C. Ma. Total	Primary D.C. Ma. Each Side	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	RMS Test Voltage	Case Type	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
S-39X	3–4	60	30	12,000 CT	3–4	750	.46	54.6:1	1500	X	50	½	1⅜	2⅜	1⅜	2		.45
S-64X	4–6	80	40	6000 CT	3–4	550	.35	42.5:1	1500	X	50	⅝	1⅜	2⅜	1½	2		.5
S-15X	7–10	70	35	10,000 CT	3–4	785	.32	53.7:1	1000	X	63	⅝	1⅝	2 13/16	1½	2⅜		.6
S-19Z	10–14	100	50	10,000 CT	3–4	755	.33	53.7:1	1000	Z	75	1	2⅜	2⅞	2	2⅜		1.3
S-68Z	15–18	180	90	3400 CT (3000 CT/3800 CT)	3–4	135	.29	29.1:1	1500	Z	88	⅞	2 23/32	3⅛	2	2 13/16		1.6
S-69Z	15–18	120	60	5000 CT	3–4	230	.31	35.4:1	1500	Z	88	⅞	2 23/32	3⅛	2	2 13/16		1.6
S-21A	15–18	110	55	8000 CT	3–4	520	.32	48:1	1000	A	88	⅞	2 23/32	2 11/32	2⅜	1¾	1⅝	1.75
S-21Z	15–18	110	55	8000 CT	3–4	520	.32	48:1	1000	Z	88	⅞	2 23/32	3⅛	2	2 13/16		1.6

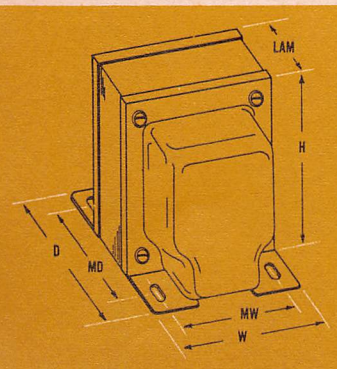
UNIVERSAL OUTPUT / single or push-pull tubes to voice coil

Type No.	Output Watts	Application	Primary D.C. Ma. P.P. Total	Primary D.C. Ma. Single Total	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Overall Turns Ratio	RMS Test Voltage	Case Type	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
S-62X	2	Single or P.P. Plates	60	30	2000 to 10,000	.64 to 26.3	474	.79	25:1	1500	X	38	⅜	1 13/16	2 1/16	1¼	1¾		.21
S-52X	4	Single or P.P. Plates	50	25	4000 to 24,000	1.3 to 24.5	930	.745	32.7:1	1500	X	50	½	1⅜	2⅜	1⅜	2		.45
S-51X	5	Single or P.P. Plates	70	35	4000 to 14,000	.04 to 89.6	420	.98	25:1	1000	X	50	½	1⅜	2⅜	1⅜	2		.45
S-63X	6	Single or P.P. Plates	100	50	7000 to 15,000	.5 to 28.6	280	.745	18.7:1	1500	X	50	½	1⅜	2⅜	1⅜	2		.45
S-54X	8	Single		70	5000 to 15,000	.535 to 15.6	182	.835	17.9:1	1500	X	63	⅝	1⅝	2 13/16	1½	2⅜		.6
S-53X	8	Single or P.P. Plates	80	40	4000 to 14,000	.04 to 89.6	340	.83	24.9:1	1000	X	63	⅝	1⅝	2 13/16	1½	2⅜		.6
S-55X	10	P.P. Plates	100		4000 to 14,000	.04 to 89.6	427	1.04	24.9:1	1000	X	75	¾	1 15/16	3 3/16	1⅞	2 13/16		1
S-55Z	10	P.P. Plates	100		4000 to 14,000	.04 to 89.6	427	1.04	24.9:1	1000	Z	75	¾	2¾	2⅞	1¾	2⅜		1
S-56Z	12	Single		85	6000 to 15,000	.35 to 24	135	.7	15.8:1	1500	Z	88	⅞	2 23/32	3⅛	2	2 13/16		1.6
S-59Z	15	P.P. Plates	175		4000 to 15,000	.8 to 25.4	90	1.06	11.3:1	1500	Z	88	⅞	2 23/32	3⅛	2	2 13/16		1.6
S-57Z	15	P.P. Plates	110		4000 to 14,000	.04 to 89.6	456	1.76	25:1	1000	Z	88	⅞	2 23/32	3⅛	2	2 13/16		1.6
S-61Z	20	P.P. Plates	125		4000 to 12,000	1.5 to 20.2	214	.7	19.85:1	1500	Z	88	1	2 23/32	3⅛	2⅛	2 13/16		1.8

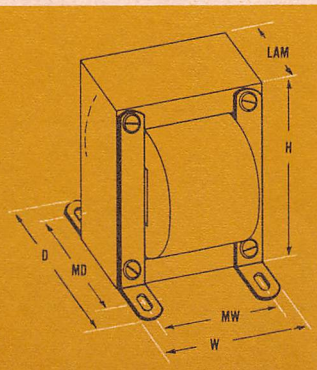
OUTPUT / line to voice coil

Type No.	Output Watts	Application	Matching Impedance Primary	Matching Impedance Secondary	D.C. Resistance Primary	D.C. Resistance Secondary	Primary Ma. D.C. Per Side	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination Size	Lamination Stack	Case Dimension H	Case Dimension W	Case Dimension D	Mounting Dimension MW	Mounting Dimension MD	Max. Unit Wt. Lbs.
S-23X	1	Lo Imp. Line to SpeakerAutoformer	50	3.2–4	3.8	.29	–	3.75:1	100–8000	1000	X	Leads	38	⅜	1 13/16	2 1/16	1¼	1¾		.21
S-26X	4	Line to Speaker Autoformer	500/50	3.2–4	28.8	.3	–	11.2:1	100–8000	1000	X	Leads	38	⅜	1 13/16	2 1/16	1¼	1¾		.21
S-66X	3	Line to Speaker Autoformer	500	16/8/4	42	1.25	–	5.6:1	100–10,000	1000	X	Leads	50	½	1⅜	2⅜	1⅜	2		.45
S-65X	5	Line to Speaker	500	8/4	33.6	.7	–	7.95:1	100–10,000	500	X	Leads	50	½	1⅜	2⅜	1⅜	2		.45
S-76Z	10	Variable Line to Speaker Matching Transformer	250/125 62.5/31	16/8/4	30	.67	–	3.92:1	40–15,000	1500	Z	Lugs	88	1	2 23/32	3⅛	2⅛	2 13/16		1.8
S-77U	30	High Level Line to Line or Speaker Matching Transformer	500 CT/ 125§§§	32/16/8/4/2	36	2.05	–	3.96.1	40–15,000	1500	U	Leads & Lugs	112	2	3 1/16	2 13/16	4 1/16	2¼	3⅛	5

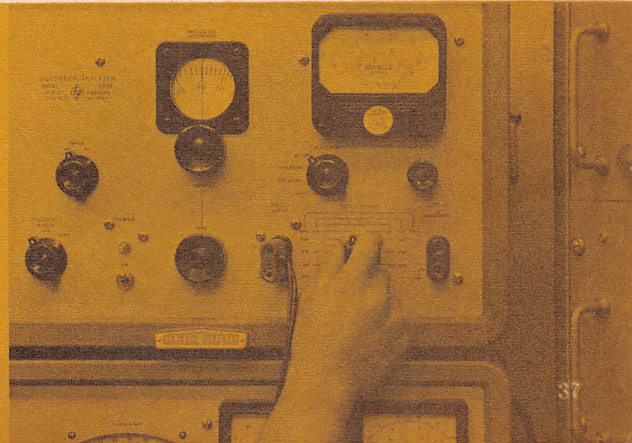
CT For Center Tap. §§§ Split winding.



A-Case



U Case



AUDIO

Triad's medium price audio components provide the same critical quality control standards to offer maximum reliability of performance in minimum overall space . . . designed to mount easily and quickly . . . exceptional construction characteristics . . . for public address systems . . . amateur radio . . . all audio replacement requirements. Rely on Triad performance at realistic prices . . . immediately available from your stocking Triad Distributor.

INPUT / line or microphone to grid

Type No.	Output Watts	Application	Matching Impedance		D.C. Resistance		Primary Ma. D.C. Per Side	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
			Primary	Secondary	Primary	Secondary							Size	Stack	H	W	D	MW	MD	
A-1X	1	Mike or Line to Grid	100	98,500	4.44	1455	–	1:31.4	100–15,000	500	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
A-3X	1	Line or Mike to Grid	400 CT	195,000	5	1290	–	1:22.1	200–10,000	500	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
A-4X	1	Line to Single Grid	500 CT/333/ 200 CT/125/ 67.5 CT/50	72,000	32.6	1290	–	1:12	100–20,000	500	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
A-5X	5	Mike or Line to Single or P.P. Grid	100	70,000 CT	1.1	3600	–	1:83.3	100–15,000	500	X	Leads	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.6
A-6X	1	Intercom-Speaker V.C. to Grid	8/4	50,000	.74	1420	–	1:79.6	150–20,000	500	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
A-7J	.01	Intercom-Speaker V.C. to Grid	3.2–4	50,000	.54	612	–	1:124	150–10,000	500	JJ	Leads	–	–	1 3/32		1 3/32	1 3/16		.25

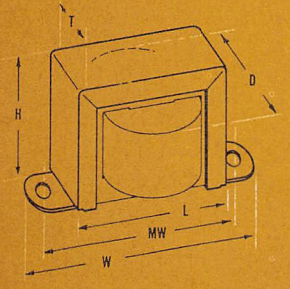
INTERSTAGE / plate to grid

Type No.	Output Watts	Application	Matching Impedance		D.C. Resistance		Primary Ma. D.C. Per Side	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
			Primary	Secondary	Primary	Secondary							Size	Stack	H	W	D	MW	MD	
A-31X	3	Plate to Single or P.P. Grids	10,000	90,000 CT	885	2660	10	1:3	100–10,000	500	X	Leads	50	1/2	1 3/8	2 3/8	1 3/8	2		.45
A-33X	6	Plate to Single or P.P. Grids	10,000	90,000 CT	1250	3750	20	1:3	70–10,000	1000	X	Leads	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1
A-35A	15	Plate to Single or P.P. Grids	10,000	90,000 CT	1315	4950	25	1:3	50–10,000	1000	A	1	88	7/8	2 25/32	2 11/32	2 3/8	1 3/4	1 5/8	1.75
A-39A	15	P.P. Plates to P.P. Grids	20,000 CT	45,000 CT	2320	3460	25	1:1.5	50–10,000	1000	A	1	88	7/8	2 25/32	2 11/32	2 3/8	1 3/4	1 5/8	1.75
A-42Z	6	Multi-Ratio Single or P.P. Plates to Single or P.P. Grids	15,000 CT 15,000 CT 3750	135,000 CT 33,750 135,000 CT	1310	3910	20	1:3 1:1.5 1:6	70–10,000	1500	Z	Leads	75	3/4	1 15/16	3 5/16	1 3/4	2 13/16		1

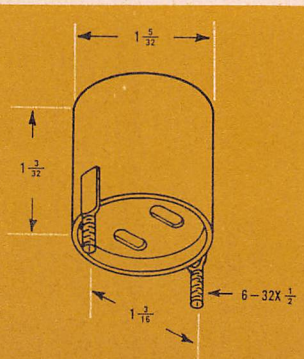
OUTPUT / low level

Type No.	Output Watts	Application	Matching Impedance		D.C. Resistance		Primary Ma. D.C. Per Side	Overall Turns Ratio	Frequency Response ± 3 DB	RMS Test Voltage	Case Type	Connections or Lead Holes Used	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
			Primary	Secondary	Primary	Secondary							Size	Stack	H	W	D	MW	MD	
A-51X	1	Plate to Lo Imp. Line	7000	50	564	5.35	20	11.8:1	200–8000	1000	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21
A-53X	5	Single or P.P. Plates to Line	18,000 CT	600/250/ 50	1160	38	20	5.5:1	70–10,000	1000	X	Leads	63	5/8	1 5/8	2 13/16	1 1/2	2 3/8		.6
A-54X	2	Single or P.P. Plates to Speaker	7700 CT	8/4	600	.8	28	30:1	150–20,000	1500	X	Leads	50	1/2	1 3/8	2 3/8	1 3/8	2		.45
S-58X	1	Line to Line	600 CT/ 150§§§	600 CT/ 150§§§	46	47.2	–	1:1	100–10,000	500	X	Leads	38	3/8	1 3/16	2 1/16	1 1/4	1 3/4		.21

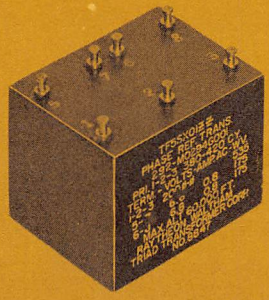
CT For Center Tap. §§§ Split winding.



X Case



A-7J Case



Epoxy molded to customer specification.

Triad Audio Transformers are reliable and economical for the efficient public address system which provides adequate, well distributed, uniform amplitude, giving dependable power transfer to speaker without waste, resistive control absorbing excess power. Ask your distributor for the Triad 70 Volt Line Sheet, for complete specifications and data on 70.7 or 25 volt sound distribution systems. Triad's peak performance, long life and superior construction features are offered in all of these realistically priced transformers.

OUTPUT / 70.7 volt line to voice coil

Type No.	Output Watts	Matching Impedance		D.C. Resistance		Freq. Resp. ± 3DB	RMS Test Voltage	Case Type	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
		Primary	Secondary	Primary	Secondary				Size	Stack	H	W	D	MW	MD	
S-73X	5	16,000/8000/4000/ 2000/1000 Isolation	16/8/4	838	1.17	40–15,000	1500	X	50	½	1⅜	2⅜	1⅜	2		.45
S-70Z	5	16,000/8000/4000/ 2000/1000 Autoformer	8/4	580	.65	40–15,000	1000	Z	50	½	1 11/16	2	1⅜	1 23/32		.45
S-47Z	8	10,000/5000/2500/1250/ 625 Isolation	16/8/4	515	.93	30–20,000	1500	Z	63	¾	1 15/16	2⅜	1⅝	2		.67
S-78Z	10	4000/2000/1000/500 Isolation	16/8/4	157	.84	40–20,000	1000	Z	63	⅝	1 15/16	2⅜	1½	2		.6
S-25Z	10	4000/2000/1000/500 Autoformer	8/4	120	.475	30–20,000	1000	Z	75	¾	2 5/16	2⅞	1¼	2⅜		1
S-71Z	10	4000/2000/1000/500 Autoformer	16/8/4	148	.835	40–20,000	1000	Z	63	⅝	1 15/16	2⅜	1½	2		.6
SR-45Z	10	4000/2000/1000/500 Autoformer	16/8/4	267	.866	20–20,000	1000	Z	88	1	2 23/32	3⅛	2⅛	2 13/16		1.8
SR-74K	10	4000/2000/1000/500 Weatherproof-Autoformer	16/8/4	257	.8	20–20,000	1000	K	–	–	3 7/32	2 19/32	3 1/32	1¾	2 11/16	2.25
S-79Z	20	2000/1000/500/250 Isolation	16/8/4	69	.7	40–20,000	1000	Z	75	¾	2 5/16	2⅞	1¼	2⅜		1
S-75K	20	2000/1000/500/250 Weatherproof-Autoformer	16/8/4	88	.62	20–20,000	1000	K	–	–	4 5/16	3 21/32	4 15/32	2¾	3⅞	6
S-72Z	20	2000/1000/500/250 Autoformer	16/8/4	56.5	.5	40–20,000	1000	Z	75	¾	2 5/16	2⅞	1¼	2⅜		1
S-46A	20	2000/1000/500/250 Autoformer	16/8/4	88.7	.82	20–20,000	1000	A	100	1¾	3 3/32	2 21/32	3⅜	2	2⅝	4

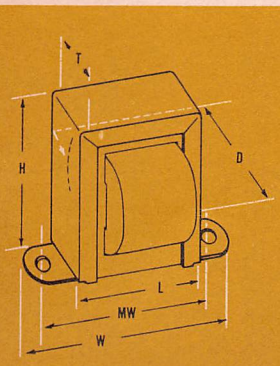
OUTPUT / 25 volt line to voice coil

Type No.	Output Watts	Matching Impedance		D.C. Resistance		Freq. Resp. ± 3DB	RMS Test Voltage	Case Type	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
		Primary	Secondary	Primary	Secondary				Size	Stack	H	W	D	MW	MD	
S-131X	2	1250/625/312 Isolation	8/4	63	.67	50–20,000	1500	X	50	½	1⅜	2⅜	1⅜	2		.45
S-132X	5	1000/500/250/125 Isolation	16/8/4	37.6	.76	30–20,000	1500	X	63	¾	1⅝	2 13/16	1⅝	2⅜		.8
S-133Z	10	500/250/125/62.5 Isolation	16/8/4	12.5	.66	20–20,000	1500	Z	88	⅞	2 3/32	3 1/16	2	3⅛		1.6

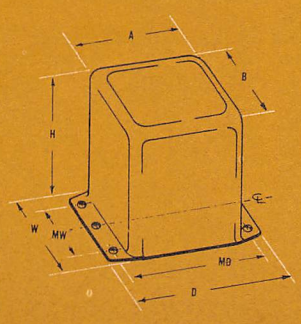
MATCHING / 25 or 70.7 volt line

Type No.	Output Watts	Matching Impedance		D.C. Resistance		Freq. Resp. ± 3DB	RMS Test Voltage	Case Type	Lamination		Case Dimension			Mounting Dimension		Max. Unit Wt. Lbs.
		Primary	Secondary	Primary	Secondary				Size	Stack	H	W	D	MW	MD	
S-130Z	10	62.5 CT (25V. to 70V.) 500 CT (70V. to 25V.)	500 CT 62.5 CT	11	94	20–20,000	1500	Z	75	¾	2 5/16	2⅞	1¾	2⅜		1
S-129Z	30	20.8 CT (25V. to 70V.) 166 CT (70V. to 25V.)	166 CT 20.8 CT	1.9	16.9	20–20,000	1500	Z	100	1	3 3/32	3⅝	2¼	3⅛		2.3

CT For Center Tap.

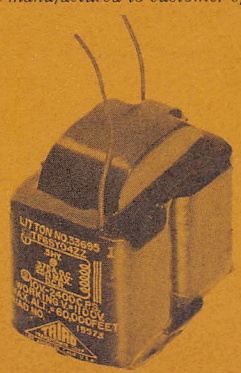


Z Case



K Case

Encapsulated unit manufactured to customer specifications.



LAMINATION CHARTS / dimensions

DECIMAL EQUIVALENTS

1/64 ..... .01563	17/64 ..... .26563	33/64 ..... .51563	49/64 ..... .76563
1/32 ..... .03125	9/32 ..... .28125	17/32 ..... .53125	25/32 ..... .78125
3/64 ..... .04688	19/64 ..... .29688	35/64 ..... .54688	51/64 ..... .79688
1/16 ..... .0625	5/16 ..... .3125	9/16 ..... .5625	13/16 ..... .8125
5/64 ..... .07813	21/64 ..... .32813	37/64 ..... .57813	53/64 ..... .82813
3/32 ..... .09375	11/32 ..... .34375	19/32 ..... .59375	27/32 ..... .84375
7/64 ..... .10938	23/64 ..... .35938	39/64 ..... .60938	55/64 ..... .85938
1/8 ..... .125	3/8 ..... .375	5/8 ..... .625	7/8 ..... .875
9/64 ..... .14063	25/64 ..... .39063	41/64 ..... .64063	57/64 ..... .89063
5/32 ..... .15625	13/32 ..... .40625	21/32 ..... .65625	29/32 ..... .90625
11/64 ..... .17188	27/64 ..... .42188	43/64 ..... .67188	59/64 ..... .92188
3/16 ..... .1875	7/16 ..... .4375	11/16 ..... .6875	15/16 ..... .9375
13/64 ..... .20313	29/64 ..... .45313	45/64 ..... .70313	61/64 ..... .95313
7/32 ..... .21875	15/32 ..... .46875	23/32 ..... .71875	31/32 ..... .96875
15/64 ..... .23438	31/64 ..... .48438	47/64 ..... .73438	63/64 ..... .98438
1/4 ..... .25	1/2 5	3/4 ..... .75	1 ..... 1.00000

A–AC–AL–M CASE DIMENSIONS

Lamination Size	H Maximum	W Maximum	* D ± 1/8	MW ± 1/32	* MD ± 1/8	A ± 1/32	B ± 1/64	* C ± 1/16	E Min.	F (Typ.)
88	2 23/32	2 11/32	Stack + 1 1/2	1 3/4	Stack + 3/4	3/8	3/16	Stack + 7/16	3/4	17/32
100	3 3/32	2 21/32	Stack + 1 5/8	2	Stack + 7/8	1/2	3/16	Stack + 9/16	3/4	17/32
112	3 1/2	2 31/32	Stack + 2	2 1/4	Stack + 7/8	7/16	7/32	Stack + 13/16	1	17/32
125	3 7/8	3 3/32	Stack + 1 7/8	2 1/2	Stack + 1	3/8	3/16	Stack + 13/16	1	17/32
138	4 1/4	3 19/32	Stack + 2 3/8	2 3/4	Stack + 1 1/4	5/8	7/32	Stack + 1 5/16	1	17/32
150	4 5/8	3 15/16	Stack + 2 1/2	3	Stack + 1 3/8	9/16	7/32	Stack + 1 1/32	1 1/4	47/64
176	5 5/16	4 1/2	Stack + 2 5/8	3 1/2	Stack + 1 5/8	1/2	1/4	Stack + 1 5/32	1 1/4	47/64
212	6 1/2	5 1/2	Stack + 3 1/4	4 1/4	Stack + 1 1/4	3/4	5/16	Stack + 1 25/32	1 1/4	47/64

X BRACKET DIMENSIONS

Lamination Size	Lamination Stack	H ± 1/16	W ± 1/16	D + 1/8	MW ± 1/32	L ± 1/16	T ± 1/16	Mtg. Holes ± 1/64
18	3/16	5/8	1 9/32	1 1/16	1 1/16	1 3/16	7/32	1/8
18	1/4	5/8	1 17/32	3/4	1	1 3/16	9/32	.100
24/25	1/4	1 3/16	1 5/8	1	1 3/8	1 1/16	5/16	.120
38	3/8	1 3/16	2 1/16	1 1/4	1 3/4	1 7/16	7/16	3/16
50	1/2	1 3/8	2 3/8	1 3/8	2	1 11/16	9/16	3/16
50	5/8	1 3/8	2 3/8	1 1/2	2	1 11/16	11/16	3/16
63	5/8	1 5/8	2 13/16	1 1/2	2 3/8	1 15/16	11/16	3/16
63	3/4	1 5/8	2 13/16	1 5/8	2 3/8	1 15/16	13/16	3/16
75	3/4	1 15/16	3 5/16	1 3/4	2 13/16	2 5/16	13/16	3/16
75	1	1 15/16	3 5/16	2	2 13/16	2 5/16	1 1/16	3/16
88	7/8	2 5/32	3 11/16	2	3 1/8	2 23/32	31/32	3/16
88	1	2 5/32	3 11/16	2 1/8	3 1/8	2 23/32	1 1/32	3/16
100	1	2 19/32	4	2 1/4	3 5/16	3 3/32	1 1/32	3/16

B CASE DIMENSIONS

Lamination Size	* H ± 1/8	W ± 1/16	D ± 1/16	MW ± 1/32	MD ± 1/32	CW Max.	CD Max.	Thread Size	B Max.
88	Stack + 3/4	2 5/8	2 3/16	2 3/16	1 3/4	2 1/8	1 23/32	6–32	1 3/16
100	Stack + 3/4	3	2 1/2	2 1/2	2	2 5/32	1 13/16	6–32	1 3/16
112	Stack + 3/4	3 3/8	2 13/16	2 13/16	2 1/4	2 17/32	2 1/16	8–32	1 5/16
125	Stack + 1	3 3/4	3 1/8	3 1/8	2 1/2	2 11/16	2 3/16	8–32	1 1/16
138	Stack + 1 1/8	4 1/8	3 7/16	3 7/16	2 3/4	3 5/32	2 7/16	8–32	1 3/16
150	Stack + 1 1/8	4 1/2	3 3/4	3 3/4	3	3 5/16	2 3/4	8–32	1 1/4
176	Stack + 1 3/8	5 1/4	4 3/8	4 3/8	3 1/2	4 1/32	3 1/16	10–32	1 5/16

Z BRACKET DIMENSIONS

Lamination Size	Lamination Stack	H ± 1/16	W ± 1/16	D + 1/8	MW ± 1/32	L ± 1/16	T ± 1/16	Mtg. Holes
38	3/8	1 7/16	1 13/16	1 1/4	1 1/2	1 3/16	7/16	3/16
50	1/2	1 11/16	2	1 3/8	1 23/32	1 3/8	9/16	3/16
50	5/8	1 11/16	2	1 1/2	1 23/32	1 3/8	11/16	3/16
63	5/8	1 15/16	2 3/8	1 1/2	2	1 5/8	11/16	3/16
63	3/4	1 15/16	2 3/8	1 5/8	2	1 5/8	13/16	3/16
75	3/4	2 5/16	2 7/8	1 3/4	2 3/8	1 15/16	13/16	3/16
75	1	2 5/16	2 7/8	2	2 3/8	1 15/16	1 1/16	3/16
88	7/8	2 23/32	3 1/8	2	2 13/16	2 9/32	31/32	3/16
88	1	2 23/32	3 1/8	2 1/8	2 13/16	2 9/32	1 1/32	3/16
100	1	3 3/32	3 5/8	2 1/4	3 1/8	2 19/32	1 1/32	3/16

*CHECK SPECIFIC ITEMS FOR 'STACK' DIMENSIONS.

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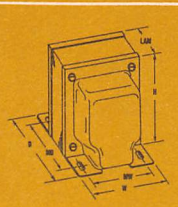
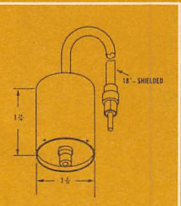
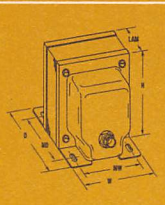
TRIAD CASE TYPES

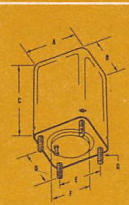

A Case


A–210P Case

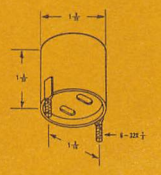

AC Case

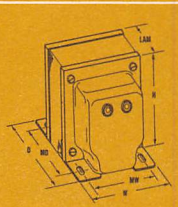
AF Case

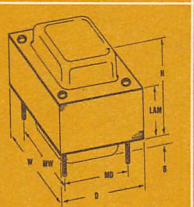
AH–2 Case

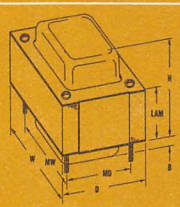

AJ Case

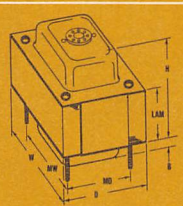
AJ–2 Case

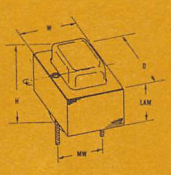

A-7J Case

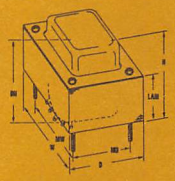

AL Case


B Case


BC Case


BS Case


Small C Case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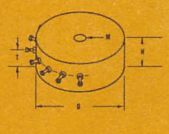
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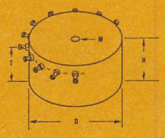
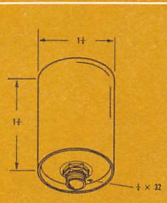

EE Case

HS & HSM Case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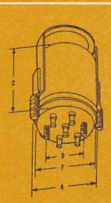
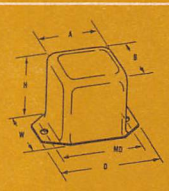
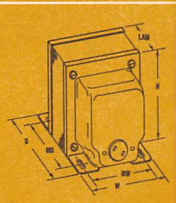

JO Case

JZ Case


K Case

K Case


M Case

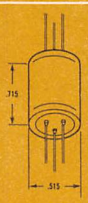
MM Case

P Case

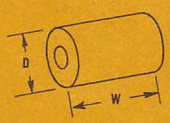
P Case

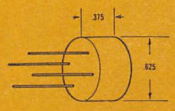
P2 Case

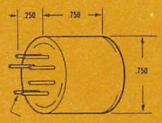
PL4

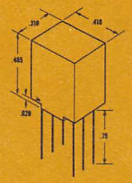

PL5

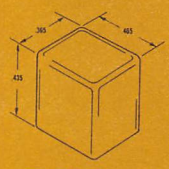
PL6

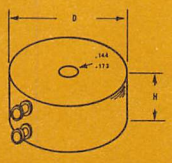

PL-10

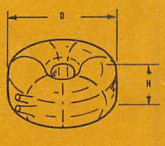

Pulse

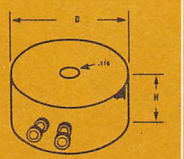

Pulse

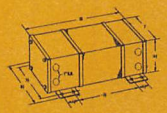

SP Case

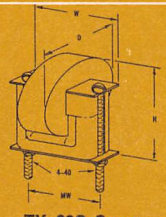

SP–310 Case

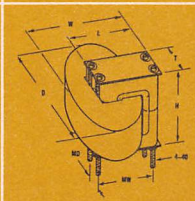

Toroid A-Case

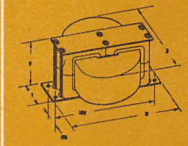

Toroid Open Type

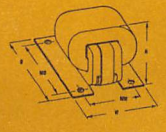

Toroid AA Case

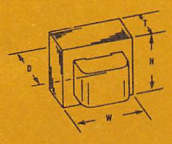

SC Case

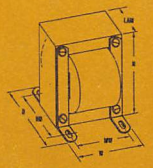

TY–68S Case

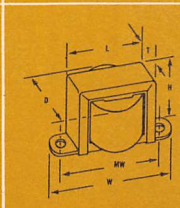

TY–69S, 70S, 71S Case

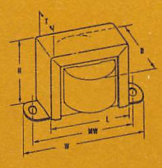

TY–74S Case

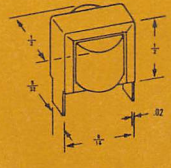

TY–L Type

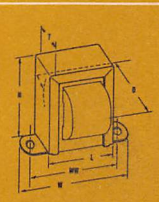

TZ


U Case


Small X Case


X Case


XT Case


Z Case

TRIAD TRANSFORMER CORPORATION

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